AD-A115 B22

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2 20304A ASSAULT BREAKER, MISSILE NUMBER TFT-7, ROUND NUMBER V4A3--ETC(U) APR 82 D C KELLER.

UNCLASSIFIED

1 OF 1 APR 3 APR 3

AD A115822

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

DR 1229 APR 82

AU

METEOROLOGICAL DATA REPORT 20304A ASSAULT BREAKER Missile Number TFT-7 Round Number V4A3 15 April 1982

by

DONALD C. KELLER Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568 DTICTE JUN 2 1 1982

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

THE COPY

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

DISTRIBUTION STATEMENT A

Approved for public release;

Approved for public release;

DISPOSITION INSTRUCTIONS

Destroy this report when it is no longer needed. Do not return to the originator.

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 2. GOV	T ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER
DR 1229 AD-	A115 822
4. TITLE (and Substite) 20304A ASSAULT BREAKER Missile Number TFT-7, Round Number V4A3	5. TYPE OF REPORT & PERIOD COVERED
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER(*)
White Sands Meteorological Team	DA Task 1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT HUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
US Army Electroics Research & Developme	ent Cmd Apr 82
Atmospheric Sciences Laboratory White Sands Missile Range New Mexico	
White Sands Missile Range, New Mexico 14. MONITORING AGENCY NAME & ADDRESS(If different from C	ontrolling Office) 15. SECURITY CLASS, (of this report)
US Army Electronics Research and Develo	pment Cmd INCLASSIFIED
Adelphi, MD 20783	UNCLASSIFIED
	154. DECLASSIFICATION/DOWNGRADING SCHEDULE
Annroyed	
18. SUPPLEMENTARY NOTES	
The second secon	
19. KEY WORDS (Continue on reverse side if necessary and identi	fy by block number)
	;
	}
Meteorological data gathered for the la Missile Number TFT-7, Round Number V4A3	unching of the 20304A Assault Breaker.

DD 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

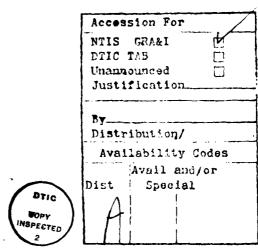


CONTENTS

	F	PAGE
INTRODU	CTION	1
DISCUSS	ION	1
GENERAL	AREA MAP	2
LAUNCH	AREA DIAGRAM	3
TABLES:		
1,	Surface Observation taken at 0908 MST at LC-33	4
2,	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 0908 MST	5
3.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 0908 MST	5
4,	Surface Observations taken at Jallen at T-30, T-0 and T+30 minutes	6
5.	Pilot-Balloon Measured Wind Data at 0858 MST at LC-33	7
6,	Pilot-Balloon Measured Wind Data at 0908 MST at LC-33	8
7.	Pilot-Balloon Measured Wind Data at 0830 MST at Jallen	9
8.	Pilot-Balloon Measured Wind Data at 0908 MST at Jallen	10
9.	Holloman Significand Level Data at 0630 MST	11
10.	Holloman Upper Air Data at 0630 MST	13
11.	Holloman Mandatory Levels at 0630 MST	19
12.	Jallen Significant Level Data at 0745 MST	20
13.	Jallen Upper Air Data at 0745 MST	21
14.	Jallen Mandatory Levels at 0745 MST	23
15,	LC-37 Significant Level Data at 0800 MST	24
16.	LC-37 Upper Air Data at 0800 MST	26
17,	LC-37 Mandatory Levels at 0800 MST	31
18.	WSD Significant Level Data at 0908 MST	32
19.	WSD Upper Air Data at 0908 MST	34
20.	WSD Mandatory Levels at 0908 MST	39
21.	Holloman Significant Level Data at 0908 MST	40
22,	Holloman Upper Air Data at 0908 MST	42

TABLES CONT 'D

23.	Holloman Mandatory Levels at 0908 MST	48
24,	Jallen Significant Level Data at 0908 MST	49
25,	Jallen Upper Air Data at 0908 MST	50
26.	Jallen Mandatory Levels at 0908 MST	55



INTRODUCTION

20304A Assault Breaker, Missile Number TFT-7, Round Number V4A3, was launched from LC-33, White Sands Missile RAnge (WSMR), New Mexico, at 0908 MST, 15 APR 1982. The scheduled launch time was 0900 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range. New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (O C), relative humidity, dew point (O C), density (gm/m 3), wind direction and speed, and cloud cover were made at the LC-33 and Jallen Met Sites.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at Lc-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from Pilot-Balloon observation at:

SITE AND ALTITUDE

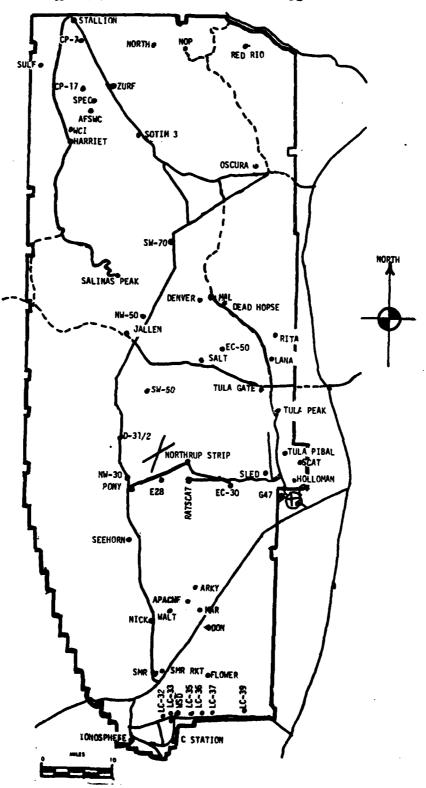
LC-33 2760 Meters Jallen 3000 Meters

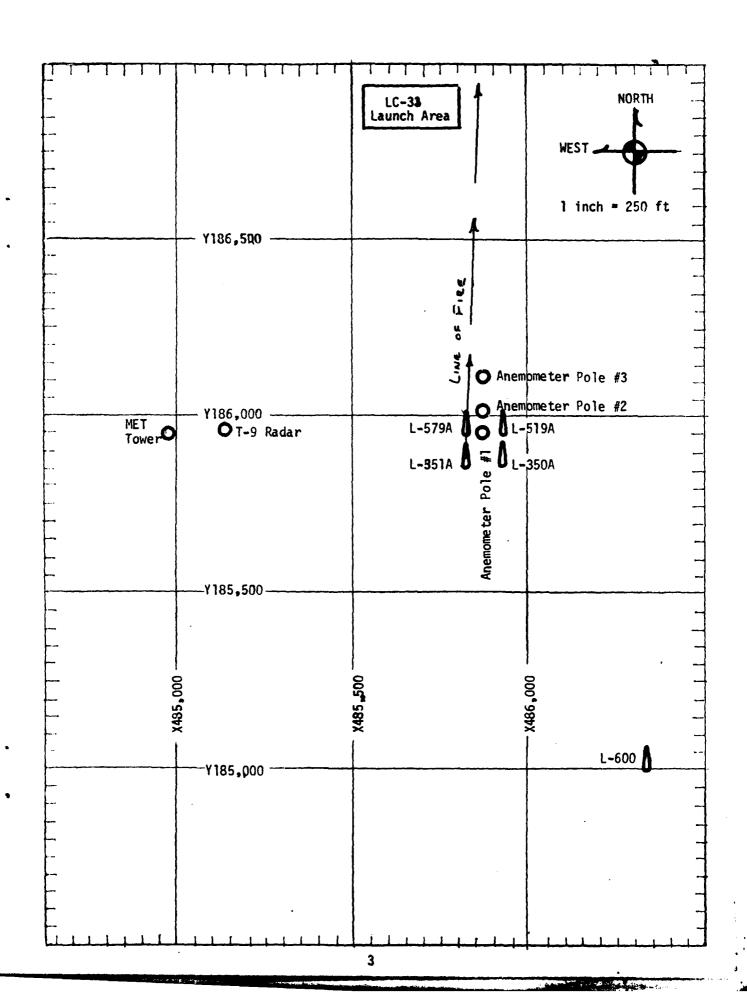
(2) Air structure data (rawinsond) were collected at the following Met Sites.

SITE AND TIME

Holloman Jallen 0745 MST LC-37 0800 MST WSD 0908 MST Jallen 0908 MST

WSMR METEOROLOGICAL SITES





PPOJECT SURFACE OBSERVATION

TABLE 1	1						()	STATION LC-33 E & A	33 E & A		
DATE 15		APR 82	1				^	X= 484,982.64 Y= 185,957.73 H= 3995.00	/= 1	85,957.73 H	3995.00
TINE M S T	1 12	TE:PER OF	ATURE OC	Do Jo	01::17 0°C	PELATIVE HUMIDITY %	SENSIJY gm/mg		HIND SPEED kts	DIPECTION SPEED CHARACTER degs In kts kts	VISIBIL- ITY
8060	873.0		21.9		-5.2	-5.2 16	1027	280	60		20

	PEMARKS		H ALQDS			
	3rd LAYER	ANT TYPE HGT				
CLOUDS	2nd LAYER	AMT TYPE HGT				
		AMT TYPE HGT	1 25 000	7000607		
_	OPSTRUCTIONS OF	TO VISIBILITY				

PSYCHROMETRIC COMPUTATION

TI:E:	8060	
DRY BULB TEMP.	21.9	
MET BULB TEMP.	9.0	
WET BULB DEPR.	12.9	
DEW POINT	-5.2	
RELATIVE HUMID.	16	·

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	8.90 4		POLE #3 X485,87 Y186,013 H4033.5 53.0 ft	4. 93 2.00 7		POLE # X485,87 Y186,11 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DE G	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
Т - 30	260	11	T -30	262	09	T -30	281	17
Γ-20	254	10	T -20	285	07	T -20	308	17
r -10	257	08	T -10	282	10	Т-10	296	14
0.0	261	07	T0.0	286	10	то.о	280	12
+10	264	09	T +10	282	08	T +10	292	13

TABLE 3	LC-33 METEOROLOGICAL	TOWER ANEMOMETER	MEASURED WINDS	(202 FT TOWER)
---------	----------------------	------------------	----------------	----------------

LEVEL #1, 1: X484,982.64		, H3983.00 (base)	LEVEL #2, 62 X484.982.64,		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	265	11	T -30	288	15
T -20	305	10	T -20	282	12
T-10	292	10	T -10	287	15
TO.0	303	10	T 0.0	288	19
T+10	285	15	T +10	294	18

LEVEL #3, 10 X484,982.64	2 FEET Y185,057.7	3, H3983.00 (base)	LEVEL #4, 20 X484,982, Y1		3983. 00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	282	14	T-30	287	15
T ₋₂₀	277	12	T-20	280	16
T- 10	278	17	T- 10	281	15
то.о	279	18.	То.о	276	18
T+10	275	18	T+10	280	18

PPOJECT SUBFACE OBSERVATION

TABLE 4							ν ₁	STATION JAL-R	I-R		
DATE 15	APR 82	82	ţ				*	= 451,560.0) = \ 0(X= 451,560.00 Y= 465,177.00 H= 4051.00	4051.00
118 8 2 1	RESSUPE mbs	TEMPERATURE OF	ATURE OC	DEW POINT	OIRT OC	PELATIVE HUHIDITY %	ENSIJY gm/mg	DIRECTION degs In	1 1 1	WITO SPEED CHARACTER kts kts	VISIBIL-
0836	871.5		18.2		-4.3	21	1038	180	10		20
0 907	871.6		18.9		-11.0	12,	1036	190	05		50
0937	871.0		21.3		-13.3	60	1028	160	90		50

OBSTRUCTIONS 1st LAYER TO VISIBILITY AMI TYPE HGT NONE NONE	AYER PE HGT	CI OUDS Znd LAYER AMT TYPE HGT	3rd LAYEP Aut TYPE HGT	YEP E HGT	REMARKS CLR CLR
	·		 		CLR

PSYCHROMETRIC COMPUTATION

:11/1	0830	0907	0937
DRY BULB TEMP.	18.2	18.9	21.3
WET BULB TEMP.	7.6	6.5	7.2
WET BULB DEPR.	10.6	12.4	14.1
DEW POINT	-4.3	-11.0	-13.3
RELATIVE HUMID.	21%	12%	%6

PILOT BALLOON MEASURED WIND DATA

TABLE	5 `	_							
RELEASED	FROM LC-3	13		DATE	15 APR 82			TIME 0858	MST
					486,872.00				
HEIGHTS	ARE METERS	AG! X	OR	FEET AGL					
HEIGHT	DIRECTION	SPEED		HEIGHT	DIRECTION	SPEED	HEIGHT	DIRECTION	SPEED
AGL	DEGREES	KNOTS		AGL	DEGREES	KNOTS	AGL	DEGREES	KNOTS
sfc	280	14		1860	271	23			
60	281	22		1920	270	27			
120	281	25		1980	270	30			
180	281	25		2040	274	32			!
240	281	25		2100	277	34			
300	285	24		2160	277	34			
360	287	25		2220	276	34			[
420	288	25		2280	277	34		<u> </u>	<u> </u>
480	283	22		2340	277	34			
540	278	20		2400	276	33			
600	269	18		2460	276	33			
660	263	16		2520	275	34			
720	266	12		2580	275	33			
780	252	09		2640	275	33			
840	233	08		2700	275	33			
900	22	09		2760	274	33			
960	211	09							
1020	222	09							
1080	207	07							
1140	228	09						· · · · · · · · · · · · · · · · · · ·	
1200	226	09							
1260	240	10							
1320	246	12						······································	
1380	243	11						·	
1440	224	13						· · · · · · · · · · · · · · · · · · ·	
1550	227	12						· 	
1560	242	13							
1620	254	19							
1680	261	19							
1740	261	19							

PILOT BALLOON MEASURED WIND DATA

TABLE		-						
RELEASED	FROM LC	-33	DA	TE 15 APR 82			TIME 0908 N	IST
	000	PRDINATES	(MSTM)	X= 486,872.00	Y =	184,146,75	H=_3981	.15
HE1GHTS	ARE METERS	AGL_X	OR FEET AG	il				
HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
sfc	280	09	1860	267	24			
60	283	17	1920	261	27			ļ
120	291	20	1980	266	27			
180	280	21	2040	263	28			
240	292	20	2100	268	30			
300	285	22	2160	274	30			
360	277	21	2220	274	29			
420	283	22	2280	278	32		Y	
480	275	25	2340	278	34			
540	271	23	2400	275	34			
600	275	23	2460	275	34			
660	272	21	2520	276	31			
720	268	19	2580	276	31		· · · · · · · · · · · · · · · · · · ·	
780	265	15	2640	277	30			
840	252	14	2700	278	30			
900	253	13	2760	279	31		······································	
960	237	12						
1020	246	12						
1080	246	11					·-····	
1140	236	10						
1200	239	09					·	
1260	240	09						
1320	231	08						
1380	236	13						
1440	251	17			1			
1500	249	21			1			
1560	262	23			1			
1620	258	22		j				
1680	261	25			1			
1740	258	25			1			

PILOT BALLOON MEASURED WIND DATA

TABLE	7							
RELEASED	FROM JAL	LEN	DATE	15 APR 82	···		TIME 0830 N	IST
	со	ORDINATES	(WSTM) X=	451,560.00	Y=_	465,177.00	H= 4051	00
			OR FEET AGL_					
HEIGHT	DIRECTIO DEGREES	N SPEED KNOTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
sfc		01	1680	254	14			
60	176	04	1740	255	15			
120	175	06	1800	256	15			
180	174	09	1860	258	15			!
240	182	08	1920	259	15			
300	191	07	1980	260	15			1
360	204	07	2040	261	16			
420	219	07	2100	261	18			
480	233	07	2160	262	20			
540	242	08	2220	264	23			
600	247	08	2280	266	25			
660	252	09	2340	267	25			
720	257	09	2400	267	25			
780	263	09	2460	269	24			
840	269	09	2520	271	24			
900	274	08	2580	273	23			
960	279	08	2640	275	23			
1020	279	08	2700	278	23			
1080	276	08	2760	275	22			
1140	272	07	2820	272	21			
1200	268	08	2880	274	20			
1260	265	09	2940	278	21			
1320	265	10						
1440	266	11						
1500	261	12						
1560	258	12						
1620	256	13						
,								

PILOT BALLOUN MEASURED WIND DATA

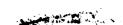
TABLE 8								
RELEASED FROM_	JALLEN		DATE_	15 APR 8	2		IME_0908 MST	
	COORDINATES	(WSTM)	X=_	451,560.0	0 Y= 4	165,177.00	н= 4051.00	

HEIGHTS ARE METERS AGL X OR FEET AGL .

AGL	1 200000	LAMAGE
	DEGREES	KNOTS
sfc	190	02
60	181	04
120	178	06
180	177	08
240	186	07
300	196	07
360	208	07
420	220	06
480	232	07
540	238	07
600	241	07
660	244	06
720	246	06
780	248	05
840	250	05
900	252	05
960	254	05
1020	263	05
1080	273	06
1140	280	06
1200	281	08
1260	281	09
1320	270	09
1380	258	10
1440	251	11
1500	249	12
1 560	247	13
1620	252	13

HEIGHT	DIRECTION	SPEED
AGL	DEGREES	KNOTS
1680	257	14
1740	258	14
1800	260	14
1860	261	16
1920	261	17
1980	262	18
2040	261	18
2100	261	19
2160	261	19
2220	259	20
2280	258	21
2340	261	23
2400	263	25
2460	266	27
2520	268	28
2580	269	29
2640	268	30
2700	268	31
2760	267	31
2820	266	30
2880	267	30
2940	268	29
3000	269	28
	ſ	1

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
		14.1013
}		
}		



GEODETIC COOMDINATES 32.84865 LAT DEG 106.U9965 LON DEG																																				
UATA	HEL.HUM. PERCENT	33.0	33.0	35.0	35.0	35.0	0.00	32.0	03.0	55.0	57.0	37.0	33.0	37.0	35.0	32.0	32.0	32.0	32.0																	
NT LEVEL 0010105 UMAN 9	TEMPERATURE AIR DEWPOIN; GREES CENTIGRADE	-8.8	-2.4	1.9	1.7	E.1-	0 0	0.01	-15.0	-18.0	-19.2	-25.2	-27.7	-32.6	-32.3	-36.4	-39.5	8.2.	*・ハナー																	
SIGNIFICA 105 HOLL TABLE	0E	6.2	13.5	17.5	17.3	13.9	7 · ·	-1.5	.9.4	-10.8	-12.5	-13.7	-15.1	-21.9	-50.9	-24.5	-28.0	5.75	-39.0	6.03-1 -4.00.03	-54.1	-55.4	-58.9	-61.3	-64.5	9.0	100-	-64.8	-62.0	-65.4	-64.5	-64°5	-59.0	-55.7	-56.4	-53.6
15. _	GEOMETRIC ALTITUDE MSL FEET	4126.6	4214.7	4518.9	4699.7	6311.9	10026.9	13312.1	16780.4	17484.6	17998.0	18748.6	19865.5	22155.9	22492.5	24210.3	25778.0	29856.2	0.79800	31730.4	37620.0	39676.6	44029.8	45651.0	48078.2	50726.6	5.4880.1	57396.6	58359.5	60855.7	61112.9	63207.1	67998.5	70245.5	74369.7	78743.5
TUD _E 4126.59 FEET MSL 063n HRS MST . 105	PRESSUME MILLIBARS	867.7	864.9	855.5	850.0	802.2	0.007	4.810 5.810 5.810	540.6	525.8	515.2	200.0	478.1	435.5	429.5	0.004	374.5	314.1	0.000	289.1 250.0	220.5	200.0	162.3	150.0	133.1	116.7	1001	84.1	80.2	70.9	70.0	63.1	50.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.9	30.0
STATION ALTITUDE 15 APR. B2 ASCENSION NO. 1	• • • • • • • • • • • • • • • • • • • •																																			

GEODETIC COOKDINATES 32.88865 LAT DEG 106.UY965 LON DEG		
SIGNIFICANT LEVEL DATA 1050010105 HOLLOMAN TABLE 9 CONT'D	TEMPERATURE KEL.HUM. AIR DEWPOIN! PERCENT DEGREES CENTIGRADE	149.6 145.2 147.5 147.6 137.4 137.5
STATION ALTITUDE 4126.59 FEET 45L 15 Apr. 82 0630 HRS MST ASCENSION NO. 105	PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEËT	23.1 84354.4 20.0 87477.8 14.8 94071.6 12.9 97095.1 10.0 102735.6 8.2 107230.9 7.0 110843.3 5.0 118527.7

STATION ALTITUD 15 APR. 82 ASCENSION NO.	1 ^U 0£	4126.59 FEET MSI 0630 HRS MST 5	T MSL MST	, p	UPPER AIR DATA 1050010105 HOLLOMAN TABLE 10	05 TA		6E00E1 1.32.	GEODETIC COOKDINATES 32.68865 LAT DEG 106.09965 LON DEG
GEUMETRIC ALTITUDE	PRESSURE		TEMPERATURE AIR DEWPOINT	REL HUM. PERCENT	DENSITY GM/CUBIC	SPLEU OF SOUND	WIND DATA	1A SPEED	INUEX OF
	HILLIBARS	DEGREES	CENTIGRADE			KNOIS	DEGREES (TN)	KNOTS	REFRACTION
4126.6	867.7	6.2	8.8	33.0	1080.6	9.159	110.0	5.9	1.000256
	850.1	17.3	1.6	34.9	1023.8	. 1	115.4	2.1	1.000259
2000-0	840.9	16.7	1.2	35.0	1007.7	_	134.1	1.1	•
5500-0	825.9	15.6	۲,	35.0	•		209-0	.,	•
900	811.2	14.6	7	35.0	•	_	230-4	N .	•
6500.0	796.7	13.5	-1.7	35.1	965.4	_	210.7	• •	1.000240
•	782.2	12.5	-2.6	50.5	0.000	0.60	2.00	0	• •
	0.00	111	0.5	ייייייייייייייייייייייייייייייייייייי	_		2712	•	•
900	7:00	, d	• u	000 400 400 400 400 400 400 400 400 400	910.0		0.42	,	•
•	200	0 1	0 0	000 H	900		290.1	. 6	1000
9 · J D D A	7.3.7	0 4	9-2-	יים פינוני סינוני	887.6		282.3	18.7	00021
	7.007	100	9	7 6 6 E	875.2		279.2	18.0	_
0500	687.6	\$ C	7.6-	35.4	862.2		281.3	17.4	1.000207
11000-6	674.8	3.5	•	34.8	849.3		281.7	18.7	1.000202
1500	662.2	2.2	11	34.2	836.6		281.1	21.0	1.000199
2000-	649.8	1.2	-13.1	33.6	824.1		2/9•1	23.3	1.000195
2500	637.6	?	-14.2	33.0	8118		7.7.2	0.00	1.000191
3000	625.7		-15+3	32.4	1.667		0.4.20	20.00	1.000168
13500.0	60130	P - 1 - 5	-16.2	32.5 0.5 0.4	776.0	641.9	272.3	78.8	1.000184
	500-7	100	10.01	0.00 8.00 8.00 8.00	764.5		271.5	000	•
15000-0	579.4	15.4	-17.9	36.5	753.1	637.7	269.3	29.5	00017
•	568.3	9.9-	-18.6	37.8	742.0		266.3	29.7	1.000173
6000	557.4	-7.7	-18.7	40.8	730.9		262.7	30.8	•
ė	546.6	-8.7	-16.1	55.0	719.2		261.3	32.4	
2000	535.9	8.6	-15.9	60.5	0.80/		7 · 002	1.50	1.000167
7500	525.5	-10.9	-18.1	55.1	697.2		50102	0 · 5 · 6	•
8000	212.5	12.0	6	N. 000	6.700 7.70		3.540	0 • *** ****	1.000154
9000	000	• •	-23·0	0.0	6.010		262.0	4.5	1.000159
•	100	* :	2000	30. I	654.4		36.00	900	1000
	400		900	44	640.5			36.1	
	Ś	-1 7.D	200	34.1	633.3		263.2	37.4	.00014
å	•		-30.1	35.0	624.2	621.8	7.497	38.6	•
•	47.	-20.0	•	35.9	615.2		267.4	8	1.000140
ė	36.	-21.4	N	36.7	606.4	_	271.5	ė	
ė	N	-50.9	32.	35.0	•	619.	2/8/2	ġ,	200
	420.6	-22.0	-33.5	34.1	583.1		285.0	50.00 10.00	1.000132
÷	-	-23.0	٠	33.2		616.	290.0	ì	1.000130

STATION ALTITUDE 15 APR. 82 ASCENSION NO. 1	- *	1126.59 FEET MSL 0630 HRS MST 5	ET MSL MST		UPPER AIR DATA 1050010105 HOLLOMAN TABLE 10 CONT'D	DATA DS NT'D		6E0DET1(32+1	GEODETIC COOKDINATES 32.eb865 LAT DEG 106.u9965 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIMARS	0	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(IN) KI	1A SPEED KNOTS	INJEX OF REFRACTION
		•	1	4			, 0	,	
24000.0	405.0	154.	133.9	32.4	200		291.0	0.00	1.000127
24500.0		152-1	0./5-	32.0	7. TO 1		7.607	500	C21000 · T
25000.0		-56.3	-38.0	32.0	0.40.0 0.11.0	_	203.5	37.2,	
25500.0		-27.4	-39.0	32.0	537.0		2/8.5	40.1	
26000.0		-28.5	0.04-	32.0	528.1	4.609	276.7	43.6	1.000119
26500.0		-29.6	-41.0	32.0	519.3	0.809	276.9	47.2	1.000117
27000.0		-30.8	-42.0	32.0	510.6	6000	278.5	50.9	1.000115
27500.0	347.7	-31.9	0.64-	32.0	502.1	605.1	278.0	54.4	1.000113
28000·D	340.3	-33.1	0.44-	32.0	493.7	603.7	278.9	57.8	1.000111
28500.0	333.0	-34.2	-45.1	32.0	485.5		279.4	61.2	1.000109
29000-0		-35.3	-46.1	32.0	477.4		279.8	9.49	1.000107
29500.0		-36.5	-47.1	32.0	469.5		279.0	67.9	1.000105
30000-0	312.1	-37.5	-48.0	32.0	461.4	598•0	277.9	71.1	1.000103
30500.0		-38.4	-48.8	32.0	452.9		275.5	73.9	1.000101
31000.0		-39.2	-50.6	28.0**	9.444		273.4	75.6	1.000099
31500-0		-39.9	9.09-	8.8**	436.3	594.9	272.4	75.6	1.000097
32000-0		-41.0			428.6		272.1	75.9	1.000095
32500.0		-42.3			451.4		272.7	76.7	1.000094
33000.0		-43.7			414.3		272.9	77.7	1.000092
33500.0		145.0			407.4		2/2.8	78.8	1.000091
34000.0		146.3			400.6		272.0	79.0	1.000089
34500.0		9./4			D.000		2,2,0	± 01	1.000088
35000.0	0.040 0.040	148.9			387.2	583.4	272.5	77.6	1.000086
		6 6 6 6			2000		272.7	77.0	
36500.0	232.4	150.9			365.8	579.5	272.0	78.7	1.000081
	227	-52.9			359.0		271.9	79.4	1.000080
37500.0					352,3		271.0	80.0	1.000078
38000.0	216.6	-54°-3			344.8	570.3	271.6	81.2	1.000077
10000					2006		0.17	92.0	C/0000 .
30000					200				•
0.0000		1500			326.0	272.0	2000	70	7.00001
•					010		7.2.2	0.00	
: ,		1.05-			2000		2.2.2	966.0	1.000064
0.0001		20.00			2000	57.50	2000	0000	1.00000
•		0.00			673.0	7.7.0	7.7.7	0.0	•
		12/04			•	5/2.2	2,4.7	(0.0)	1.000064
	1000	15/1			282.6	5/1.7	6.172 	74.7	1.000063
•		V 00 1			40/2	2,175	0.172	0.5	7900001
•	C+097	50.0			2.0/2	2.0.1	6.017	13.5	1.00000
								;	-

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USE! IN THE INTERPOLATION.

STATION ALTITUD	فد	4126.59 FEET MSL	J	UPPER AIR DATA 1050010105 HOLLOWAN	۲. TA ائ		VEODET 1	VEODETIC COOMDINATES
SCENS 10	105		- -	TABLE 10 CONT'D	O.TN		106.	
GEOMETRIC ALTITUDE	PRESSURE	TEMPERATURE AIR DEWPOINT	REL.HUM. PFRCENT	DENSITY S	SPEED OF	WIND DATA	TA SPEFD	INUEX
MSL FEET	MILLIBARS	ם		METER	KNOTS	DEGREES (IN)	KNOTS	HEFRACTION
#000 t	162.5			264.2	570.3	270.2	73.0	1.000059
0	158.6			258.8		7.697	72.2	1.000058
5000.0	154.8			253.4		268.7	70.6	•
5500-0	121.1			248.2		267.9	68.9	• 00000
0009	147.4			243.0		267.8	71.0	1.000054
46500.0	143.9			237.8		201.0	7.57	1.000053
47000-0	140.4			232.8		208.2	76.9	1.000052
47500.0	136.4			8.122		2000	, ,	1.000051
	155.0			2623.0	202.9	26430	7.4.6	1.00000
	100.0			2000	2000	267.4		7 4 C C C C C C C C C C C C C C C C C C
0.0000	12/21	0.40		207.2		266.5	9	740000 T
	121.0			202.2		265.6	56.4	1.000045
	118.0			197.3		766.0	53.8	1.000044
	115.1			191.9		266.3	49.2	1.000043
	112.3			186.2		267.4	45.7	1.000041
	109.6			180.7		268.7	42.2	
52500-8	107.0			175.3		259.6	36.9	000003
	****			0.1/1		7070	010	•
	6.101			7.791		20070	7 - 7	7.0000.1
54500.0	97.6	619-		160.0	566.9	267.5	10.8	1.000036
55000-0	9.46	162.		156.4		262.4	7.6	1.000035
55500.0	92.3	-62.9		153.0		251.6	4.6	1.000034
56000.0	90.1	163.4		149.6	564.2	214.1	2.1	1.000033
56500.0	67.9	-63.9		146.3	563.5	155.4	8	1.000033
57500.0	80.00 7.00	**************************************		130.7	562.9	127.2	0 G	1.000032
58000.0	81.6	-63.0		135.4	564.7	226.0	5.0	1.000030
	79.6	-62.2		131.5		529.9	10.1	1.000029
ė	7.77	-62.9		128.7	564.9	4.497	16.8	•
ė.	75.8	-63.6		126.0		265.5	21.8	1.000028
å.	74.0	10.00		123.3		266.1	25.7	1.000027
å,	72.2	F-191		120.1	562.2	202.5	23.6	1.000027
ė.	# O /	6.49L		117.8	562.2	264.5	21.5	1.000026
•	200	0 · • • • • • • • • • • • • • • • • • •		7.011	205.7	7 - 407	۸ ا	1.000026
•	0.79	164.0		111.6	562.7	203.8	•	1.000025
ė	å.			•	562.7	203.0	11.4	1.000024
63000.0	65.0	164		106.4	562.7	203.9	70.	1.000024
į	ì	2.50		*****	0000	31107	1.04	747777

TATION 5 APR	TITUDE 41	4126.59 FEFT MSL 0630 HRS MST	-	UPPER AIN DATA 1050010105 HOLLOMAN	DA1A 05		GEODETI 32.	GEODETIC COORDINATES 32-84865 LAT DEG
ASCENSION	. NO.			TABLE 10 CONT'D	O'TNO		•	5
GEOMETRIC ALTITUDE	PRESSURE	PERATURE DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEED OF SOUND	WIND DATA	SPEED	INUEX OF
MSL FEET	MILLIBARS	S CENTIGRADE		METER	KN015	DEGREES (TN)	KNOTS	REFRACTION
64000.0	2.09	-62.1		100.2		262.9	10.4	1.000022
•	59.5	-60.6		97.1		261.7	10.7	1.000022
65000.0	57.8	-59.8		4.46		261.5	10.4	1.000021
•	56.4	-59.7		92.1		262.2	7.6	•
0.00099	55.1	-59•5		89.8	569.4	262.8	~ o	1.000020
~ .		1000 m		20 T		263.4	, d	•
67500.0	51.2	1.00-1		9.00		263.6	6	10000
	20.0	-59.0		81.3		263.9	6.8	1.000018
68500.0		-58.3		79.1		267.5	8.6	1.00001
0.00069		-57.5		77.0		2.5	0 0	1.600017
6-00569 70000		-50.0		70.07	573.0	2002 2004 2004 2004	0 1	710000°1
70506-0		1.00.		71.1		21.0	10	1.000016
71000.0		1 10 10 10 10 10 10 10 10 10 10 10 10 10		h 69		61.1	6.9	10000
71500-10		-55.9		67.8		74.9	10.2	10000
72000-0		-56.0		66.3		82.5	•	1.000015
72500-1		-56.1		64.7		2.0	17.1	10000
73000.0		-56.2		63.5		C-16	19.2	10000
0.000°/		-50.3		\$ 109	573.6	1 6 86	11.3	1.0000.1
74500.D		1.00 0.00 0.00		58.9		116.7	2.5	10000
75000.0		-56.0		57.5		247.1	4.6	1.000013
75500.0		-55°-7		56.0	574.5	2020	7.2	1.000012
\$-00097 24500.0		5 - N		0 * C		135.4	1 4	210000-1
77000.				52.0		238.4	2.0	1.000012
77500.0		-34.4		50.7	576.2	265.2	5.1	1.000011
78000.0		-54.1		4.64		268.5	3.9	1.000011
78500.0		-53.8		48.2	577.0	93.5	9.0	
79000.0		\$.00°		47.0		91.7	11.8	
79500.0		1930		45.8		3. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	12.8	10000
80000		152.1		L. ##	578.4	92.6	12.0	1.000010
0.000 A		0 - 0 V		200		269.	1	
01200		-51.6		41.5	579	271.4	•	00000
82000.0		-51.3		40.5	580	271.6	20.3	1.000009
2500	25.2	-20.9		39.5	580.	271.0	11.5	1.000009
83000.0	24.6	-50.6		38.5	581	271.6	2.7	
3500.	24.0	-50·z		2.70	581.	211.0	ů.	1.000008

TATION	1.0	4126.59 FEET MSL	T MSL	,	UPPER AIR DAT 1050010105	0ATA		GEODET 1	C COOKDINATES
15 APR. B2 ASCENSION	¥0.	0630 HRS	MST		HOLLOMAN TABLE 10 CONT'D	Q, IN		32. 106.	32.8865 LAT DEG 106.09965 LON DEG
GEOMETRIC	PRESSURE		TEMPERATURE	REL.HUM. PFRCFNT	DENSITY :	SPEED OF	WIND DATA	TA SPEET.	INUEX
MSL FEET	MILLIBARS	DEGREES	- W		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
84000.0	•	6.64-			36.6	582.2	271.0	12.9	1.000008
500		9.64-	•		35.8	-	271.0	•	1.000008
85000.0	22.	9.64-			34.9		271.6	18.9	00000
5500	21.	9.64-			34.1		271.0	19.6	1.000008
86000		2.64-			33.4	582.6	271.6	16.3	1.000007
86500.0	20.	5.64-			32.6	582.0	271.0	7.0	1.000007
÷	20.4	-49.5			•	582.6	91.6	2.3	
87500.0	20.0	-49.5			31.1	582.6	87.6	S	1.000007
~ ·	19.5	149.2			† · · · · · · · · · · · · · · · · · · ·	583.1	7.0	1.5	1.000007
•	1.61				88.00	200	30105) () ()	1.00000
	101	0.00				7.000	1000 11. 11.	ָ י י	•
	17.8	7.04			2.02	004.00	7.54	6.7	1.00000
90500	17.4	-47.5			26.9	585	79.1	6.4	
:	17.0	-47.2			26.3		84.4	9.0	•
91200.0	16.6	6.94-			25.6		9.68	8.7	1.000006
92000-0	ė	9.9%			25.0		91.7	10.1	1.000006
92500.0	15.9	-46.2			54.4		91.7	12.3	.00000
93000•¢	ŝ	-45.9			23.8		91.7	•	00000
93500.0	15.2	9*57			23.3		95.7	13.9	1.000005
		V 4			22.1	588.1	104.0	11.0	1.00000
95000	1				21.4	_	153.1	4	
ė	13.9	-46.3			21.3	586.8	225.0	8.2	1.000005
96000.0	13.6	-46.7			20.9	586.3	246.4	15.6	.00000
ė	15.3	-47.0			20.4		249.7	18.6	1.000005
	13.0	4-/4-			20.0		250.3	19.5	•
_	12.7	-47.1			19.5		250.8	19.8	• 00000
900	12.4	-46.7			19.0	586.3	253.6	22.8	•
_	15.1	-46.2			18.6	586.9	256.3	27.0	
0.00066	-	-45.8			18.1	587.4	258.3	31.1	
99500	-	-45.3			17.7	588.0	220.6	30.4	•
0	11.3	6.44.			17.3	584.6	253.0	27.7	٠
00200	11.1	オ・サ・サー			16.8	589.2	249.6	25.1	1.000004
101000.0	201				16.4	589.8	247.6	25.3	1.000004
10000	9	C+C+1			0 1 0 1	590.4	0.0	01	*00000.1
02000	20.0	143.1			•	290	240.0	27.7	1.000003
	•	42.0					240.0	26.5	1.000003
103500.0	7.0	1000 m			7 - 1	242.0	250.0	* 60	1.000003
-00000) 14 #			•	4.740) · · · · ·	717	700000

STATION ALTITUDE 15 APR. 82 ASCENSION NO. 1	₽. 2	#1 05	26.59 FEFT MSL 0630 HRS MST	, F	UPPER AIK DATA 1050010105 HOLLOMAN TABLE 10CONT ¹ D	0,1A 0,5 NT'D		6E0DE716 32.86 106.09	DETIL COORDINATES 32.68865 LAT DEG 106.09965 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSU MILLIBA	RE RS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY 6 GM/CUBIC NETER	SPEEU OF SOUND RNOTS	WIND DATA DIRECTION S (JEGREES(IN) K	SPEED KNOTS	INUEX OF REFRACTION
104000.0	·	9.5	-41.0		14.2	593.6	251.0	20.3	1.000003
04500	٠,	•	40.4		13.8	594.3	250.b	16.3	1.000003
105000-0			-39.9		13.5	595.0	250.1	16.4	1.000003
105500.0	~	٠	-39.3		•	595.7	5.642	14.4	1.000003
106000.0	•		-38.B		12.9	596.4	248.8	12.2	1.000003
106500.0	~	•	-38.2		12.6	597.1	249.1	3. 6	1.000003
00070	· •		-37.7		12.3	597.8	0 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 ·	0 t	£00000.1
107500.0	-u [-37.5		12.0	598.0	8.002 8.004	•	1.00000
108000.0	- 1	•	0.61		7 7 7 7		270.4		200001
1000001	- 17	• (1.8.1		11.2	_	270.4	3.6	1.000003
109500		•	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		11.0		270.4		1.000002
110000.0			1 (C)		10.8		270.4	7.4	1.000002
110500.0			8.00		10.6		268.1	11.4	1.000002
111000.0			6.001		10.3		265.0	18.6	1.000002
111500-0		•	-38.8		10.1		264.5	25.7	1.000002
112000.0		1.9	-38.7		6.6		263.4	32.9	1.000002
112500-0		6.5	-38.6		9.7		263.5	40.1	1.000002
113000.0		•	-38.5		9.5		262.6	42.1	1.000002
113500-0		•	-38.4		9.5		261.0	0.35	1.000002
114000-0		7,	N • 80 1		0.0	597.0	2000 2000 2000 2000 2000 2000 2000 200	4.00 0.00	1.000002
114500-6		•	7.00.0		0 4		258.0		1,000012
115500-0	•	• •			9 6		257.1	48-1	1.000002
	- -		-38.0		8.3		256.3	47.7	1.000002
16500		•	-37.9		8.1		55.	47.3	1.000002
_		5.3	-37.8		7.9		254.5	46.9	1.000002
117500.0		•	-37.7		7.7		253.6	40.4	1.000002
118000.0		•	-37.6		7.6	6.765	253.2	0.11	1.000002
118500.0		•	-37.5		7.4		252.5	ä	1.000002
119000.0	7	6.9	-37.0		7.2		251.7	41.1	1.000002
119500.0	4	8.	-36.4		7.1				1.000002
120000.0		•	-35.8		6•9				1.000002
120500.0		91	-35.3		6.7	5.009			1.000001
121000.0		•	1.040.		•••	9.109			100000.
-00012			4 · · · · · · · · · · · · · · · · · · ·		•••	602.5			100000
122600.0		3 0	1000 I			0.509			1.000001
•00022	•	•	130.0		•	0.700			40000

_		
	ب	
	Z.	•
		:
	E z	?
	, I	:
	N S	7
	200)
	41	Ŋ
	Į.	2
	Ş	_
	=	ġ
	72	\ -
	-	ē
	0 6	Š
	4	. I
	STATION ALTITUDE 4126.59 FEET MSL	N. S.

MANDATORY LEVELS	1050010105	OMAN	.E 11
MANDATOR	10500	HOLLOMAN	TABLE 1.

GEODETIC COOMDINATES 32.88865 LAT DEG 106.09965 LON DEG

PRESSURE	GEOPOTENTIAL		TEMPERATURE AIR DEWPOINT	MEL.HUM. PERCENT	WIND UIRECTION	UATA
ILLIBARS	FEET	DEGREES	CENT IGRADE	; ; ;		KNOTS
850.0		17.3	1.7	35.	•	1.7
800		13.7	-1.4	35.	_	5.2
750.0		•	•	35.		•
7000	_	5.2	-8.6	36.	279.3	18.0
650.0	-	1.2	-13.0	34.		
600.0	_	L. 3. 3	-16.9	34.		•
550.0	_	19.4	-16.8	51.		31.8
500.0		-13.7	-25.2	37.	_	•
450·0		-19.5	0	30.		•
1001		-24.5	-36.4	32.	. ^	•
350.0		-31.6	-42.7	32.		
300.0		-39.0	4.64-	32.	. •	75.7
250.0		-48.8			_	77.9
200-0		-55.4			_	84.5
175.0		-57.8			_	74.4
150.0		-61.3			•	68.7
125.0		9.49-			566.9	65.5
100.0		-61.3			••	•
80.0		-62•1			257.4	•
70.0		-64.5			-	
0.09		-61.4			262.4	•
50.0		-59.0			263•9	e.
40.0	72390.	-56.1			0.68	18.0
30.0		-53.6			92•2	•
25.0	8228	-50.8			271.6	
20.0		-49.5			0•68	•
15.0	9331	•			Ņ	å
10.0	10218	-42.4			#	ŝ
7.0	11020	•			9.99	15.6
5.0	~	-37.5			252.5	•

A STATE OF THE STA

GEODETIC COONDINATES 33.16712 LAT DEG 106.49511 LON DEG																	
A T A	REL.HUM. PEHCENT		25,0	25.0	23.0	20.0	20.0	19.0	18.0	16.0	16.0	17.0	17.0	17.0	18.0	18.0	
SIGNIFICANT LEVEL DATA 1050030021 JALLEN TABLE 12	TEMPERATURE IR DEMPUINI	CENT 16RADE	-10.0	-8-1	-4.3	-B.7	-7.2	-8.0	-17.7	-24.3	-34.3	-36.2	-39.8	するのサー	9.24-	-50.0	
SIGNIFIC 10 JAL TAB	TEMPE	DEGREES	6.9	11.2	11.0	13.9	15.7	15.5	٠ د	8-9-	-14.0	-19.5	-21.3	-25.7	-32.4	-34.1	-40.5
NSL T	PRESSURE GEOMETRIC ALTITUDE	-	4051.0	4082.3	4243.2	4562.9	4735.3	5217.3	10040.1	15125.2	18728.5	21134.4	22418.6	24175.3	26844.5	27992.9	30825.7
DE 4051.AO FEET NSL 0745 HRS MST 21	PRESSUR	MILLIBARS	871.4	870.4	865.3	855.3	850.0	635.4	700.0	576.5	500.0	453.6	430.3	400.0	357.1	339.8	300.0
STATION ALTITUDE 15 APR. 82 ASCENSION NO.																	

STATION ALTITUDE 15 APR. 82 ASCENSION 40.	40	4051.00 FEET MSL 0745 HRS MST 1	T MSL MS1	; ;	UPPER AIR UAT 1050030021 JALLEN TABLE 13	21 21	:	E O D	ر 95 م
SSURE		TEMPI AIR DEGREES	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	#IND DATA DIRECTION SI DEGREES(IN) K	ATA SPEED KNOTS	INDEX OF REFRACTION
_		8.9	•	25.0	1075.0	9	.	0.	1.000253
857.3		13.3	-8.8	20.6	1041.0	8.659 I	259.0	2.3	1.000246
•		15.6	-7.6	•	1014.2	_	559.0	4.8	1.000242
850.8		14.9	-8.6	•	966		259.0	7.4	1.000237
811.8		7.5	9.6	18.8	984.4	660.3	258.9	6.01 F.01	1.000233
782.5		11.4	-11.6		956.B	.	258.3	; :	
768.3		10.3	-12.6	•	943.2	•	257.9	13.4	
•		9.5	-13.6	18.4	929.9		258•d	14.5	.00021
40.7		8•0	3	18.3	916.8	653.	201.4	14.9	.00021
		6•9	-15.6	18.2	903.8		264.0	15.3	.00021
14.0		2•5	യ 1	18.1	891.1		266.9	16.1	1.000207
01.0		٠ د د	-17.6	18.0	86.5	649.5	7.602	17.1	1.000203
674.8		2.4	-19.7	17.6	852.6		2692	20.4	1.000196
662.1		1.3	-20.8	17.4	839.9	_	267.5	22.0	1.000193
649.5		••	-21.8	17.2	827.5		266.6	23.3	•
37.3		-1.0	-22.9	17.0	815.2		266.7	24.3	1.000187
25.5		-2-1	-23.9	16.8	803.1	641.	207.4	24.6	•
513.4 601.8		2 P	-24.9	16.6 16.4	779.4	640•3 638•9	208.0 266.0		1.000180
4.06		-5.4	-27.0	16.2	767.9	637.	204.0	26.9	•
•		-6.5	-28.1	16.0	756.5		203.5	27.0	1.000172
•		-7.5	-29.0	16.0	744.8		262.0	27.2	•
•		n 4	-29.8	16.0	733.0		204.1	26.8	•
		2.0.1	130.6	16.0	710.0	0.750	265.5	27-1	1.000163
6.46		-11.5	-32.5	16.0	698.7	630	20504	27.6	1.000158
14.6		-12.5	-33-1	16.0	687.7		265.1	28.4	•
504.5		-13.5	-33.9	16.0	6.929.	_	1.407	29.2	1.000153
٠		9.41-	-34.7	16.1	666.2		504.3	29.9	1.000150
484.6		-15.8	-35 •5	16.3	655.B	625.1	204.1	30.5	1.000148
•		-16.9	-36-4	16.5	645.5		564.4	•	•
		-18.0	-37.2	16.7	632.4		564.5	•	.00014
456.1		-19.5	-38.0	16.9	625.5		504.5	ċ	1.000141
0.01		120.0	•	1.0	614.8	ō	204.2	Ġ	1.000138
437.6		-20.	-39.3	17.0	604.0	619.0	204.4 2007.	26.9	1.000136
		122.8	-41.0	17.0	584.5	114	7.696	20.00	
411.4		-24.0	-42.0	17.0	575.2		272.5	26.2	1.000129
				,)	1		1 > > > 1

STATION ALIITUDE 4051.00 FEET MSL 15 APR. B2 0745 HRS MST ASCENSION NO. 21	11TUDE 40: NO. 21	51.00 FEE 0745 HRS	ET MSL MST	~	UPPER AIN DAIA 1050030021 JALLEN TABLE 13CONT'D	enta 21 CONT'D		vEODL11 33. 106.	VEODETIC COOMDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMP AIR DEGKEES	SURE TEMPEMATURE AIR DEWPOINT BARS DEGREES CENTIGRADE	rel.Hum. Percent	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND METER KNOTS	SPEED OF SOUND KNOTS	WIND DATA LIRECTION SI	SPEEU KNOTS	INDEX OF REFRACTION
24000.0		-25.3	-43.1	17.0	560.2		274.4	28.1	1.000127
24500.0	394.5	->6.5	-44-1	17.1	557.2	611.9	276.3	30.2	1.000125
25000.0		-27.8	-45.0	17.3	546.3		278.0	32.3	1.000123
25500.0		-29.0	0.94-	17.5	539.5		279.7	34.3	1.000121
26000.0		-30.3	6.94-	17.7	530.9		280.0	37.3	1.000119
26500.0		-31.5	6.74-	17.9	522.4		280.4	41.8	1.000117
27000.0		-32.6	-48.8	18.0	513.7		280.3	46.6	1.000115
27500.0		-33.4	4.64-	18.0	504.3		280.4	51.5	1.000113
28000.0		-34.1	-50.1	18.0**	495.0		280•3	55.8	1.000111
28500-0		-35.2	-52.7	14.8**	486.6		280.1	59.0	1.000109
53000.0		-36.4	-55.6	11.6**	478.3				1.000107
29500 · D		-37.5	-59.0	8.4**	470.1				1.000105
30000		-38.6	-63.5	5.2**	462.1				1.000103
50500.0		8.65	6.02-	2.1**	454.3				1.000101

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COOMDINATES 33.16712 LAT DEG 106.49511 LON DEG														
6E0DET1C 33.1 106.4	A T	SPEED KNOTS	3.5	10.1	14.6	17.2	25.3	25.8	20.6	29.5	30.0	28.8	49.5	
		DIRECTION LEGREES (TN)	259•0	258.7	259•7	269.5	266∙8	266.3	265•0	564.6	264 • 1	275.0	280.4	
ivets 21	KEL HUM.	F F F F F F F F F F F F F F F F F F F	20•	19.	18.	16.	17.	16.	10.	16.	17.	17.	18.	
MANDATORY LEVELS 1050030021 JALLEN TABLE 14	TEMPERATURE	DEGREES CENTIGRADE	-7.2	-10.4	-13.9	-17.7	-21.8	-56.2	-30.3	-34°3	-38.5	4.64-	-49.2	
2		DEGREES	15.7	12.8	8.8	4.5	٠.	-4.5	-9.5	-14.0	-19.8	-25.7	-33.1	-40.5
T MSL MST	PRESSURE GEOPOTENTIAL	FEET	4732.	6411.	8174.	10031.	11994.	14080.	16307.	18704.	21298.	24137.	27262.	30767.
0c 4051.n0 FEE 0745 HRS 21	PRESSURE G	MILLIBARS	P.50.0	900°0	750.0	200.0	650.0	6009	550.0	200.0	450.0	400.0	350.0	300.0
STATION ALTITUDE 4051.nO FEET MSL 15 APR. 82 0745 HRS MST ASCENSION NO. 21														

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE NAS USEI, IN THE INTERPOLATION.

KEL . HUM. PERCENT 19.0 16.0 41.0 41.0 69.0 53.0 50.0 19.0 16.0 15.0 16.0 16.0 16.0 16.0 TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE -43.5 -7.9 -6.8 -37.7 -50.0 -52.0 0.84--46.6 -35.3 -40.0 -50.3 -53.6 -54.6 -54.0 -55.5 -56.7 -62.5 -64.4 -59.9 -62.8 -65.9 17.2 9.2 8.5 -54.0 -65.7 -56.2 -53.0 -49.2 -32.9 -66.1 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 4051.4 4776.5 7459.9 7821.6 10069.6 14721.2 14721.2 16592.9 16692.9 16884.6 17487.7 117487.7 24197.5 26099.0 27006.4 36207.6 36736.5 37024.1 28851.6 30877.8 34887.2 39605.9 45536.8 49821.5 51592.2 5374314 55378.5 57674.5 67869.6 78679.1 87404.7 27915.2 37755.8 38824.6 60968.7 761.0 700.1 586.0 586.0 589.6 582.6 582.4 682.4 4680.0 400.0 369.2 355.2 328.0 300.0 250.0 235.0 229.2 226.1 218.4 200.0 150.0 121.4 1111.3 341.6

GEODETIC COOMDINATES 32.40175 LAT DEG 106.51232 LON DEG

SIGNIFICANT LEVEL UARA 1050180027 LC-37

TABLE 15 CONT'D

STATION ALTITUDE 4051.37 FEET MSL 15 APR. 82 0800 HRS MSI ASCENSION NO. 27

REL.HUM. PERCENT TEMPERATUKE AIR DEWPOIN; DEGREES CENTIGRADE

-47.0 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 17.0 90951.4

STATION ALTITUDE		4051.37 FELT MSL 0800 HRS MST	LT MSL MST	-	UPPER AIR DAT 1050160027 LC-37	27 27		vEODET1	VEODETIC COOMDINATES 32.40175 LAT DEG
SCENS 10	72 .	• •			TABLE 16			106.	31232 LON DEG
GEOMETRIC	PRESSURE	TEM	TEMPERATURE	REL.HUM. PERCENT	DENSITY S	SPEED OF	WIND DATA	1A SPEFO	INUEX
MSL FEET	MILLIDARS	DEGREES	J		METER	KNOTS	()EGREES (TN)	KNOTS	REFRACT 10N
4051.4	872.2	20.5	-7.9	14.0	1033.2	668.1	230.0	8.0	1.000245
4500.0	85a.4	18.5	19.4	15.2	1024.0	665.7	247.5	8.9	1.000243
2000.0		16.5	-9.1	16.2	1012.6	Ī	201.4	10.7	1.000239
5500.0	826.	15.0	6•6-	o	9•666		271.2	13.0	1.000236
0.0000	813.	13.6	-10.7	17.4	•	660.1	275.1	15.1	.00023
6500.0		12.1	-11.5	•	974.2	658.3	2.072	16.3	1.000229
0.000/	10,	10.0	# · Z T -	10.0	1.106	556.0	0.102	79.5	22000.
0.000	7.0	7 . 0	11000	•	_	004.0	363.	77	77000
0.0000	7.00	7.1	7 4 5	10.0	991.5	655.4 655.65	202.0	7 · · · · · · · · · · · · · · · · · · ·	1.000214
0.000	724.	•	16.8) r		65.15.4	266.5	27.1	1.00021
95000	7.5		-18-1	16.8		650	272.4	28.4	1.000206
10000	701		10.1	16.1		4 - 000 H - H - H	276.5	28.9	1.000203
10500-0	688	6.0	1500-	16.0		647.5	279.9	29.5	91000
11000-0		1.8	-21.3	· •		640-1	279.9	29.6	1.000196
11500.0	662	9•	-22.3	16.0	842.9		279.9	29.9	1.000193
12000-0	650	. S	-23.2	16.0	•		279.8	30.8	•
12500.0	637.	-1.7	-24.1	16.0	818.2		279.0	31.2	-
13000.0		-2.8	-25.1	16.0	806.2		277.1	31.0	-
13500.0	• 14•	0.4-	-26.0	16.0	794.3	639	275.8	30.8	-
14000.0		-5.1	-27.0	16.0	782.7		274.8	30.5	1.000178
14500.0	165	9	-27.9	15.0	•	0.00	27.	2000	-
0.00001		?	-23.9	20.0	0.867	9000	7.2.7	20.0	1,000.1
15500.0	368 868	50	0.61.	41.0	740.5	0.400	1.00%	2000	
0.00001	100	•	6 - 7 -	0 •	0 + C -	0.00	2010	7 6	•
17000.0	515.8	110.5	10.0	1010	712.0	032c0	267.7	200	1.000172
17500.0	525	-10.7	-32.2	15.0	697.2		267.1	33.0	•
18000-0	515	-12.0	•	16.2	686.9		256.8	32.1	•
18500.0	504	-13.4	-32.9	17.4	676.8	Ī	200.7	30.9	1.000153
19000.0		-14.7	-33.6	18.2	666.B	620.4	267.3	30.8	1.000151
19500.0	6.484	-16.0	•	18.5	626.9	624.8	568.4	30.4	1.000148
20000-0	•	-17.4	-35.5	18.8	647.1	623.1	569.9	30.0	*
20500.0	465.7	_	36.	18.6	630.6	651.9	271.4	29.5	1.000143
21000.0	450.5	-18.2	37.	16.8	÷	622.1	2/2.0	29.1	1.000140
1500.	447.1	-18.7	38	15.8	-	621.4	2/3.9	30.1	1.000138
2000	38.	n ·		٠	05	0	2/4.6	31.6	1.000135
2500.	50	-21.0	•	15.0	•	616.7	٠, د	÷,	0001
25000-0	150.1	752.5	<u>.</u>	15.3	380	617.2	276.3	56.9	1.000131
3200.	:	150.	-42.3	12.6	2.4.5	1:019	:	÷	1.000129

GEODETIC COOKDINATES 32.40175 LAT DEG 106.31232 LON DEG	INUEX OF REFRACTION	Ä	Ä	~	å,	1.00011		-	-	Ä		-	÷	:	1.00009	-	:	i	.	6000 0 · 1	∴		1.000087		_		•		-	-	1.00007	<u>-</u>	-	-	1.00006	_	1.000062	_
6E0DET 32, 106,	SPEED KNOTS	42.0	46.7	52.2	57.8	63.4	9-19	65.7	65.5	66.3	67.6	6-69	73.0	76.5	78.7	80.2	80.0	79.6	78.9	78.0	2.67	200	83.1	83.9	84.4	84.6		A5.0	A3.0	82.6	80.0	77.3	76.0	74.7	75.1	75.5	73.8	11.9
	WIND DATA UIRECTION SI LEGREES(IN) KI	278.7	278.7	278.4	277.1	2/5.9	2/4-8	272.0	271.2	270.5	270.0	269.8	270.0	270.4	270.9	271.3	271.5	2/1./	272.0	272.5	2,440	272.1	273.3	273.5	273.0	273.8	24.7	274.5	274.5	274.6	274.5	274.3	273.4	272.4	271.5	9.0/2	6.692	209.1
DATA 2, CONT'D	SPEED OF SOUND KNO1S	614.2		_				6000												586.2		562.9	574.6			570.0				573.4		572.0	571.4	570.7	570.0	569.4	568.7	566.1
UPPER AIN DATA 105018002, LC-37 TABLE 16 CON	DENSITY S GM/CUBIC METER	565.2	555.9	546.5	537.2	528.1	519.0	501.0	493.9	485.9	477.9	9.69h	61.	454.1	#*9##	438.B	431.3	454.0	416.8	409.7	#05.B	390.0	382.4	375.6	368.1	360.7	7.100	7 - OF 10 10 - OF 10 1	120.0	323.3	316.4	309.5		•	289.7	3	277.3	271.3
-	REL . HUM. PERCENT	15.9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	3	ċ	*6.	3.0**																								
·T MSL MST	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	-43.2	0.44-	8-44-	-45.6	146.4	-47.2		150.0	-51.3	-53.0	-56.4	6.09-	-67.9																								
4051.37 FEFT MSL 0800 HRS MST	TEMP AIR DEGREES	-24.6	-25.7	-26.7	-27.6	-28.6	-29.6		1.66	3.5	-35.6	-36.8	-38.0	-39.1	-40.3	-41.6	-42.9	-44.2	-45.5	7.94-	0.0	7.0	-50.0	-53.1	-53.8	-54.5	24.5	154.0	1 C L	10.0	-57.1	-57.6	-58.1	-58.6	-59.0	-59.5	0.09-	-60.5
TUDE • 2	PRESSURE MILLIBARS																						242.9										_	_	_			_
STATION ALTI 15 APR. 82 ASCENSION NO	GEUMETRIC ALTITUDE MSL FEET	24000.0	24500.0	25000.0	25500.0	26000.0	26500.0	27600.0	28000.0	28500.0	29000.0	29500•0	30000	30500.0	31000.0	31500.0	32000-0	32500.0	33000.0	33500.D	34000-0	35000	35500.0	36000.0	36500.0	37000.0	37500.0	38500.0	30000	39500•0	40000	40500.0	41000.0	41500.0	42000.0	42500.0	43000.0	4.5000.

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USEL IN THE INTERPOLATION.

STATION ALTITUDE 15 APR. 82 ASCENSION NO.	~	4051.37 FEET MSL 0800 HRS MST 7	٠.	UPPER AIN UNITA 1050180027 LC-37 TABLE 16 CONT	DATA D27 CONT'D		GEODETIC 32.40 106.31	DETIC COOKDINATES 32.40175 LAT DEG 106.31232 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOIS	WIND DATA UIRECTION SI UEGREES(IN) Ki	SPEED KNOTS	INUEX OF HEFRACTION
d.000**	61.	-61.0		265.4		268+3	68.7	1.000059
4500	57.	-61.5		259.6		267.4	65.6	1.000058
5000	254-0	162.0		254.0		266.7	64.5	1.000057
•	9 4	C. 201		240.0	565.3	265.7	7 4 4	00000
46500.0	143.0	6.22-0		237.0		265.4	67.7	1.000053
000		-63-1		231.5		265.2	69.0	
47500.0	136	-63-4		226.1		265.0	70.0	.00005
*8000.0	132.	-63.6		220.8		264.5	69.7	1.000049
48500.0	129.6	163.8		215.6	563.7	264.0	69. 68.3	1.000048
400000	123	C - 57		202.7		26.5.9	4	•
50000		63.6		200.4		265.0	62.9	1.000045
50500.0	117	-62.7		194.4	_	266.4	63.5	•
51000.0	114.	-61.4		188.5		267.6	58.9	
51500.0	111.	-60.1		182.8		269.5	53.8	1.000041
52000-0		1.09-		178.7		271.1	46.8	•
52500.0	100.	# 9 # 9 #		174.9		273.6	38°¢	•
53000.0	703°	-61-8		171.2		5.9/2	30.0	•
0.00000	107	# · 29 ·		10/.6		200.0	21.5	1.000037
		200		164.2		2.062	12.0	1.000037
	9 8	1644 101		150.7	203.52	276.1	, ,	1.000035
55500.0		65.6		154.4		258.0	6.6	1.000034
56000.0	89.	-65.8		150.5	-	249.6	12.3	
56500.0	87.	-65.8		146.8		247.1	16.7	1.000033
57000.0	85.2	65.8		143.1		248.2	20.9	1.000032
57500.0		-65.7		139.6		7.64Z	24.7	•
58000.0		N•#91		135.3		253.5	24.9	1.000030
0.00000		-62.6		130.9		257.1	25.2	1.000029
0-00065	77.2	16.46.46.46.46.46.46.46.46.46.46.46.46.46		128.1		262.8	23.5	1.000029
-		-64.0		125.4		20802	21.6	1.000028
		164		122.8		272	8 · ·	1.000027
61000.0	6.69	1001		117.6	560.6	271.4	11.5	1.000024
•		ו מי מי מי מי		114.3		5.00	7.5	1.000025
•	•	9.49		111.2		255.7	7	1.000025
•		-63.9		108.2		5	N. E.	1.000024
63000-0	•	-63.2		105.2			2.9	1.000023
63500.0	6119	-62.5		102.3		233.1	J. E	1.000023

DETIC COOKDINATES 32.40175 LAT DEG 106.31232 LON DEG	INDEX OF REFRACTION	1.000022	1.000020	1.000019	1.000017	.00001	1.000016	1.000015	1.000014	1.000013	1.000012	1.000011	1.000010	00000	1.000009 1.000009 1.000009
6E0DETIC 32.40 106.31	TA SPEED KNOTS	4 4 4	4.4 4.1 9.0	. u u . c u	10.9	12.6	~ ₩ • • •	3.6	4 4 4 9 6 -	3 mm	300 103 200	3 C 2		P 5 4	
	WIND DATA DIRECTION S DEGREES(IN) K	228.1 219.4 208.0	201.9 203.7 203.5	169.4	96.96	9100	85.4 76.4 55.6	251.6	238.3 230.2 223.6	215.4 205.1 180.6	148.7 127.5 120.6	115.5 114.9	120.6	2011 2011 2011 2011 2011	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
D4TA 027 CONT 1D	SPEEU OF SOUND KNOTS	560.4 567.4 568.3	569.3 570.3	572.2	574-1	574.5	574.8 575.0	575 575 4.67	575.8 576.0 576.2	576.6	577.0	577.6 577.8	578.2 578.5	579.1 579.4 579.4	580.2 580.2 580.5
UPPER AIR DATA 1050180027 LC-37 TABLE 16 CONT	DENSITY S GM/CUBIC METER	99.5	91.6 89.1 86.6	84.2	77.9	7.00	70.6 69.0 67.3	65.7	62.6 61.1 59.6	30 SS	54.1 52.8 51.5	50.3 49.1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	399.5 309.5 309.5 309.5
-	REL.HUM. PERCENT														
4051.37 FEFT MSL 0800 HRS MST 7	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-61.8 -61.0 -60.3	159.6 158.9 158.0	-57.4	150 - 17 150 - 0	150.4 150.4	1555 1556 1556 1556 1556 1556	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00 10.00	152.0	1511.6 1511.46 150.1
7UDE	PRESSURE MILLIBARS	50 58.9 50.0	5 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2000	10°0	######################################	44.2	41°1	39.2 38.3	300 M	1000 m	31.7	26.00	20.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
STATION ALTI 15 APR. 62 ASCENSION NO	GEOMETRIC ALTITUDE MSL FEET P	64000.0 64500.0 55000.0		67000.0 67500.0	68500.0	69500.0 70000.0	70500 • 0 71000 • 0 71500 • 0	72000.0	73000-0	74500.0 75000.0 75500.0	76000.0 76500.0 77000.0	000	79000.0		82000.0 82500.0 83000.0 83500.0

STATION AL	.TITUDE 40!	STATION ALIITUDE 4051.37 FEET MSL		UPPER AIR D _u ta 1050180027 LC-37	Data 27		GEODET 1	GEODETIC COOKDINATES 32,40175 LAT DEG
ASCENSION	NO. 2/		T.A	TABLE 16 CONT'D	0,11		106.	31232 LON DEG
GEOMETRIC ALTITUDE MSL FFFT M	PRESSURE MI LIMARS	TEMPERATURE AIR DEWPOINT	REL.HUM. PERCENT	DENSITY SPEED OF GM/CUBIC SCUND	SPEED OF SCUND	WING DATA UIRECTION SE	SPEED	INDEX
	Ì	Defines term tongo		יייי ביייייייייייייייייייייייייייייייי	2	()EGAELS: IN)		RETRACTION
0.000.0		120.1		7.00	261.1	272.0	7	1.000008
84500.0	٠	-50.5		35.8		301.3	9.9	1.000008
85000.0		-50.2		35.0		305.5	3.00	1.000008
85500.0		-50.0		34.1		312.8	5.9	1.000008
86000.0		149.8		33.3		329.9	3.6	1.000007
86500.0		9.61-		32.5		26.3	2.3	1.000007
87000.0	20.4	4.64		31.7	582.8	65.3	5.2	1.000007
87500.0		-49.1		31.0		98•1	9.5	1.000007
88000.0		8.84-		30.5		104.0	12.5	1.000007
86500.0		748•5		29.5		112.4	12.3	1.000007
89000.0		-48·2		28.8		120.6	12.3	1.000006
89500.0		6-44-6		28.1				1.000006
900006		-47.6		27.4				1.000006
90200+0	17.4	-47.3		26.8				1.000006

	GEODETIC COOKDINATES	32.40175 LAT DEG	106.31232 LON DEG
MANDATORY LEVELS	1050180027	LC-37	TABLE 17
	STATION ALTITUDE 4051.37 FEET MSL	15 APR. 82 0800 HRS MST	ASCENSION NO. 27

		AIR	DEWPOIN	PERCENT	DIRECTION	CTION SPEED
MILLIBARS	FEET	DEGREES	U		DEGREES (TN)	
850.0	4773.	17.2	8.8-	16.	255.7	9.6
A00.0	6452.	12.2	-11.5	18.	271.1	16.2
750.0	8209.	7.7	-14.8	18.	262.6	24.9
200.0	10060.	3.9	-19.6	16.	277.0	29.0
650.0	12018.	9	-23.2	16.	279.8	30.8
600.0	14097.	1.5-	-27.2	16.	274.8	30.4
550.0	16320.	8.6-	-14.6	-89	264.4	32.0
500.0	18716.	-14.0	-33.1	18.	267.0	30.8
450.0	21311.	-18.4	-38.0	16.	273.6	29.6
400.0	24158.	-25.1	-43.5	16.	279.0	43.2
350.0	27301.	-31.4	-48.8	16.	273.0	65.7
300.0	30817.	0.04-			270.8	78.1
250.0	34812.	-50.3			273-1	81.6
200.0	39511.	-56.7			274.6	82.2
175.0	42271.	-59.4			270.9	75.4
150.0	45415.	-62.5			266•0	64.1
125.0	49091.	-64.1			263.9	9-99
100.0	53618.	-62.8			284.4	16.7
80.0	58080.	-63.1			255.6	25.0
70.0	60761.	-66.1			271.7	12.1
0.09	63862.	-61.6			227.6	4.1
50.0	67616.	-56.2			111.4	5°4
40.0	72283.	-54.8			248.0	3.6
30.0	78344.	-53.0			121.0	3.8
25.0	82216.	-51.3			258.6	2.1
20.0	96698	-49.2			0.96	B.3

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

HIFICANT LEVEL DATA 1050020154	WHITE SANDS	TABLE 18

GEODETIC COOKDINATES 32.4UU43 LAT DEG 106.37033 LON DEG

REL . HUM. PERCENT	20000000000000000000000000000000000000
RATURE DEWPOINT CENTIGRAUE	
TEMPE AIR DEGREES	1001 1000
GEOMETHIC ALTITUDE MSL FEET	3989.0 4483.5 4721.8 9613.1 10054.2 111308.4 111308.4 116512.6 221212.6 221212.6 221212.6 22121.4 22121.4 22121.4 22121.4 22121.6 2212
PKESSURE MILLIBARS	872.2 857.2 857.2 857.2 850.0 7111.6 6625.0 851.2 851.2 851.2 851.2 851.2 850.0 850.

The state of the s

UATA	
I LEVEL)20154 20154
VIFICANT	1050020154
S16	

WHITE SANDS TABLE 18 CONT'D

STATION ALTITUDE 3989.00 FEET MSL 15 APR. 82 0908 HRS MSI ASCENSION NO. 154

GEODETIC COONDINATES 32.40043 LAT DEG 106.57033 LON DEG

REL.HUM. PERCENT

TEMPERATURE AIR DEWPOINI DEGREES CENTIGRADE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-47.6 -47.9 -48.0 -41.9 22.2 85520.0 20.0 87800.4 15.0 94083.9 11.1 100752.3

STATION ALTITUDE 15 APR. 82 ASCENSION NO. 1	ι.	3989.00 FEET MSL 0908 HRS MSI 4	ET MSL MST	-	UPPER AIR UNT 1050020154 WHITE SANDS TABLE 19	54 54 05		6600ETJC 32.40 106.37	ETIC COOKUINATES 32.4UU43 LAT DEG 06.37033 LON DEG
	PRESSURE	•	Δ.	REL.HUM. PERCENT	9 5 J	SPEED OF SOUND	WIND DATA	TA SPEED KNOTS	INDEX OF
MSL FEET	MILLIBARS	DEGMEES	CEN'I JGKADE		AF IF K	S TONY	DEGREES (N)	SIONA	MEP RACT TON
3989.0	872.2	24.5	-5.7	10	1019.0		270.0	28.0	1.000244
4000	871.9	74.4	-5.7	13.0	1018.9		270.0	27.9	1.000244
•	856.7	20.8	-6.7	S	1013.7	_	270.1	25.0	1.000242
	841.5	18.5	-7.6	16.2	1003.4	_	270.1	22.1	.00023
5500.0	826.3	17.2	-8.5	9	990.1		270-2	÷	•
0.0009	811.	15.8	†*6-	16.8	977.0	_	2/0.5	٠	•
6500°D	.96,	16.6	-10.2	_	964.1		7.692	'n,	1.000228
7000-0	782	13.0	-11.1	17.4	951.4		200.0	=	•
7500.0	,68 ,	11.6	-12-1	٠,	938.8		263.4	10.5	•
8000°D	104	10.3	-13.0	ė,	450.5		2.002	K • 1 1	٠
8500-0	147		n;	18.5	5 + I &		200.0	•	12000
90006	12,	6.7	0 4 7 1	000	902.5		1.702	7000	•
0.0006		1 0	0.01	101	670.5		2650		1.00020
100001	100	N 0	0.01	0.61	7 1 1 0		7.02	24.5	1.000204
11000-0	675	, c	18	19.0	853.3	7-2-6	275.0	29.5	1.000197
11500.0	663.	1.4	-19.6	19.1	840.7	9	275.7	33.9	1.000194
12000.0		8.	-19.9	19.4	826.7		275-1	35.9	1.000190
12500.0	638•	•2	-20.3	19.7	813.0	. 449	9.52.6	33.7	1.000187
13000.0		† · t	-20•6	20.0	799.5		277.5	31.1	1.000184
13500.0	† 19	-1.5	-21.1	20.6	787.4	645.	275.4	31.1	•
14000.0	602	-2.6	-21.7	21.3	775.7		270.1	31.2	•
14500.0	591.	-3.7	-21.9	22.8	764.1		266.5	31.6	٠
15000.0	380		15.0	D • 1	0.267	636.6	2000	32.0	1.000177
15000.0	557.	7.7	0.01	7	729.4		265.5	31.5	•
5000	50.7.0	7.0	0.40	F - 40	718.2		255.0		•
17000-6	530.6	-8-3	-27.7	18.9	705.3	034.2	256.7	30.5	1.000160
7500.	526.1	4.6-	-28.4	19.5	694.5		267.1	30.3	•
	515.8	•	-29.5	21.3	684.0		267.6	30.4	1.000156
18500.0	505.7	_	-28.7	23.0	673.8	_	268.6	31.1	.0001
•	495.	n :	29.3	24.1	•		5 · 5 · 5	715	1.000151
19500.0	485°	114.0	3001	+ 3	654.1	626.7	6.072	32.4	1000
•	7.07		7	•	•	0.029	7.7	7 :	•
0.00010	45000	11.0	425-	24.0	655	623.3	0.172	20.0	1.000144
	"	*			•	0.120	1000		11000
•	* *	2.0I-	, u	• -	6.410	050.	2 000	100	C 7000
• •	439.0	9	つド	•		/ - 129	7.4.40	'n	1.000135
			32.1	-	•	٥٠ ١ ٥٠	7.646	9 6	
2000	7	0.07	1.00	•	C•100	0.619		:	101000-1

STATION ALIITUDE 15 APR. H2		3989.00 FEET MSL 090a HRC MST	T MSL MST		UPPER AIN DAT 1050020154 WHITE SANDS	04.1A		6E0DET1	GEODETIC COOMDINATES
	. 15			·	61	CONT'D		106.	106-37033 LON DEG
GEOMETRIC	PRESSURE		TEMPERATURE	REL.HUM.	DENSITY	Speen of	WING DATA	ΤA	INUEX
ALTITUDE MSL FFFT	MILLIMARS	A I R	DEWPOINT CFNTIGRADE	PERCENT	GM/CUBIC MFTER	SCUND STONA	DIRECTION (FEREES(IN)	SPEED	OF REFRACTION
					j				
23500.0	412.8	-22.1	-38.1	21.6	572.7		208.3	39.8	1.000129
24000.0	4040	-23.5	-39.5	21.9	564.1		269.3	41.9	1.000127
24500.0		-24.8	-40.1	22.3	555.4		2.0.2	43.9	1.000125
25000.0	387.8	-26.0	6.04-	23.0	246.6		271.1	48.3	1.000123
25500.0	379.8	-26.2	-41.5	22.0	535.8		271.9	53.6	1.000120
	371.8	P-72-	-42.7	21.7	527.1		272.9	56.6	1.000118
•	364.0	-28.6	-43.8	21.4	516.5		273.7	29.6	1.000116
27000.0	356.4	-29.8	6.44-	21.1	510.1		2.4.2	62.7	1.000114
27500.0	34B.9	-30-7	-45.6	21.4	501.2		2/4.5	66.1	1.000112
28000.0	241.5	-31.4	0.94	21.9	1.264	_	273.8	69.8	1.000110
Z8500•D	334.2	32.0	6.0	22.5	0.101		2.0.0	5. (2. (2. (2. (2. (2. (2. (2. (2. (2. (2.	1.000108
20000-0	327.0	130.4	0 · 0 · 0 · 1	22.0	7.0/4	_	7.7.7	04.0	701000.
30000	250	2001	0.00	24.0	0.004	0.109	271.0	1.17	501000.1
30000-8	1010	000	**************************************	23.0			201/2	10,0	501000.
9.000cm	2000		0.101	23.0	2000 2000 2000 2000	04/0	270.7	100	101000
0.00015	660	139.0	7.7C	*0.77			270.0	100	001000
30000	282	140.6	54.5	70.0	400.0		271-4	78.1	1.00000
32500.0		-42.5	-196	****	423.0	591.6	272.4	77.9	1.000094
33000.8	273	-43.7	-61.7		415.7		273.2	78.7	1.000093
33500.0		6.44-	-64.8	8.6**	408.5		274.0	80.5	1.000091
34000.0	261.7	-46.1	-68.6	5.7**	401.5		274.1	87.1	•
34500.0	255.8	-47.3	-74-1	2.9**	394.6		274-1	95.6	1.000088
35000.0	250.1	-48·5	-97.5	**0.	387.5		2/3.9	7.46	1.000086
35500-0		14.9°5			380.5		273.8	96.1	1.000085
36500	236	120.0			3.67.5		273.0	1.26	1.000083
37000-0	227.9	101			4.000	574.4	273.9	85.8	1.000080
37500.0	222	-53.1			352.4		273.9	82.4	1.000078
38000.0	217.	-53.6			345.0		274.0	79.2	1.000077
38500.0	212.	-54.1			337.7		274.0	76.5	1.000075
39000.0	20.1.3	#•#S-			330.2		273.9	73.7	1.000074
29500.0	202	-54.5			322.7		273.7	73.6	1.000072
40000	197.	-54.6			315.2		273.1	76.5	1.000070
40200.0	•	-54.6			307.8		272.7	79.4	1.000069
	•	-55.2			70		272.2	82.1	1.000067
41500.0	184.1	-56.0			295.3	574	2/1.7	84.9	1.000066
45000.0	•	-56.7			89.	57	2/1.5	86.7	1.000064
2500	175.5	-57.5			283.5	N	2/1.1	86.7	1.000063
43000.0		-58-1			c•//>	5.1.5	210.0	2.18	1.000062

** AI LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE NAS USE: IN THE INTERPOLATION.

The state of the s

DETIC COOKDIHATES 32.4U043 LAT DEG 106.37033 LON DEG	INDEX OF REFRACTION	1.000060	1.000058	1.000057	1.000055			1.000051	1.00001	1.000048	1.000047	1.000046	1.000045	1.000044	1.000043	1.000042	1.000041	1.000038	1.000037	1.000036	1.000036	1.000034	1.000034	1.000033	1.000032	1.00001	1,00001	1.000029	1.000028	1.000027	1.000027	1.000026	1.000025	1.000025	1.000024
6E00ET1C 32-40 106-3	TA SPEEU KNOTS	3.00	989.4	85.6	80.4	75.7	71.6	7.17	711.7	70.0	68.4	62.8	56.5	48.5	5. 5. 5. 6. 7.	31.0	21.5	19.1	16.8	13.1	0. V 3.	9.5	11.2	20.6	31.0		4 4 4 5	35.2	26.1	16.1	0.9	1.9	1.0	ກຸ	10.1
	WIND DATA DIRECTION S DEGREES(IN) K	270.5	269.0	269.5	209.5	268.6	266.4	2,007	267.3	266.5	265.7	564.8	263.6	263.1	7.02	#******	271.8	274.8	278.7	279.9	281.8 279.4	569.4	262.8	262.4	202.02	7.495	0.007	205.9	566.5	5p# • #	253.5	1,00.7	151.9	159.	257.5
onta is is in I	SPEED OF SOUND KNOTS	570.7	269.3	568.6	567.9	567.3	560.9	1000	765.	565.0	9.499	564.1	264.1			204.0	2000	-		570.6	569•1 567•5			564.2	565.5	6.700	562.0	563.3	564.4	-			565.5	565. 565.	565.4
UPPER AIK DATA 1050020154 WHITE SANDS TABLE 19 CONT'D	DENSITY S GM/CUBIC METER	271.5	260.0	254 • 3	248.9	243.4	237.9	257.5	222.1	217.0	212.1	207.3	202.3	197.2	192.3	18/•2	177.1	171.5	166.6	162.5	159.5 156.5	153.6	150.5	147.1	143.6	1 47.6	134.0	130.4	126.7	123.2	119.8	117.1	# ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	104.0	106.4
	REL HUM. PERCENT																																		
3989.n0 FEET MSL 09NA HRS MST	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-58.6	1.75	1.00-1	-60.6	-61.1	-61.4	#61.8	1.001 7.001	1.52 2.00	-63.1	-63.5	-63.5	#*P9-	-63-3	-63•1	163.0	-59.7	-58.8	-58•6	-59.8 -61.0	-62.1	-63.0	4.69.	-63.9	† • • • • • • • • • • • • • • • • • • •	0.101	1.4.1	-64·3	-62·4	-61.8	162.	#-29 <u>-</u>	162.5	-62.5
VOE 39	PRESSURE MILLIBARS	167.3	150.0	155.5	151.8	148.2	144.6	141.1	11000	131.0	127.9	124.8	121.7	118.8	6.011	113.1	107.6	105.0	102.5	1001	97.7	93.0	8.06	999	90.		200	78.3	70.4	74.5	7.57	6.07	2.69	6,79	64.3
STATION ALTITIS APR. 82 ASCENSION NO.	GEOMETRIC ALTITUDE MSL FEET	4.3500.0	45000	5000	5500	900	46500.0	0.00074	0.0004	48500 ±8	0.00064	49500.0	20000	50500-0	51000.0	51500.0	52500.0	53000.0	53500.0	24000.0	54500.0 55000.0	55500-0	56000 · D	56500.0	57000.0	9.0000			•		500	000	1500	62560.0	3000

A STATE OF STATE

GEODETIC COOMDINATES 32.40043 LAT DEG 106.37033 LON DEG	A INDEX SPEED OF KNOTS REFRACTION		23.1 1.000023	-	11.1 1.000021	-	1.00001	12.7 1.000018	1.00001	-	2.5 1.000017	1.7 1.000016			-	3.5 1.000014	1.00001	.2	-		•	-	:	┩.	11000011	1.00001	1.00001	11.3 1.000010	-	.	8.5 1.000009 6.9 1.000009	-	3.3 1.000009
39	WIND DATE DIRECTION LEGREES(IN)		204.0		257-1	108.6	100.3	704.0	104.2	104.4	85.2	35.58 3.23	1.3	70	352.1	340.6	283.8	248.1	225.0	205-1	208.7	212.2	226•b	241.0	250.7	204.0				6.10Z	254.U	54847	238.0
A1k D.TA 0020154 E SANDS 19 CONT'D	SPEED OF SOUND NNOTS		3 565.3 566.0		1 568.6		۰.	573.6	4.51	-	_	574.2				1 5/5.5				5/6-8					5 578.5		- 21			.	8 581.2		
UPPER A11, D.,TA 1050020154 WHITE SANDS TABLE 19 CONT	DENSITY GM/CUBIC METER	103.6	101.3	95.8	93.1	87.9	85.	33.	79	77.	75.4	73.6	70.1	68.	7.99	63.1	929	60.5	569	57.6	3	53.	52.5	51.	ָרָ בְּי	47.4	46.2	45.	0.44	42	2° 13	39.B	38.8
у Е	REL.HUM. PERCENT																																
3989.00 FEET MSL 0908 HRS MST 4	TEMPERATURE AIR DEWPOINT DEGRÉES CENTIGRADE	-62.6	-62.6 -62.0	-61.1	-60.2	-58.3	-57.3	-56•4	-16.5	-56.3	-56.1	-55.9	-55.5	5.3	-55.1	-54.9	-134 · 55	-54.3	-54.2	0.40	-53.6	-53.4	-53.2	-53.0	157.0	-52.4	-52.0	-51.7	-51.3	-50.9	150.6	-n-9•8	-49.5
ú	SURE BARS DEGI		2.1		6.0			1.5				5.0							7.1 -5				3.0 -5		2			8-7 -5			55- 8-1		
STATION ALTITUDE 15 APR. B2 ASCENSION NO. 1	GEOMETRIC PRESS ALTITUDE MSL FEET MILLIA	9 3.00589	φ ư) W	65500.0	מש מ	L O	LCD LA	n ==	Ť	#	.	* 3	• #	· 3 ·	* *	רייו רי	ניו (I O 1	יי כיי) H)	117	IO I	י מי	∵ ⊬	79000.0	~	8	Ň	5	81500.0	. 0	0
STAT	SEOP AL 1 J	ý	ōē	8	5	5 5	وَ	5	5 5	ŏ	ŏ	~ ,	_	~	~ i		- -	ř	~ [, r	. ~	ř	~ i	► ř	, ř	× ×	×	Ď	ž į	80	so sò	60	3 0

VEODETIC COONDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX OF REFRACTION		•	1.000008	900000	800000-1	1.000007		•		•	1.000007	1.000007	1.000006	•	1.000006	•	•	1.000006	1.000006	1.000005	1.000005	1.000005	1.000005	500000	1.000005		1.00000	*00000.	00000	1.000004	1.000004	1.000004	1.000004	1.00000	1.000004
9EODETIC 32.4 106.5	TA SPEED KNOTS		o •) r	ה ה		1.0	4.5	7.2	6.8	9.4	4.6	1.4	3.9	6.5	6.8	7.1	7.9	10.0	15.1	14.1	15.5	16.9	7.07	101		•	7		14.0					
	WIND DATA DIRECTION SO DEGREES(IN) KO	4 - 24 - 0		יייטני סיוני פיייטני	2.070	267.7	271.4	356.9	65.4	A•69	68.6	67.3	62.0	4.5	278.3	267.9	201.0	254.7	248.5	242.9	239.3	237.1	230.7	2.00 c	3.00	2000		5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	2 4 4 5	1007	236.6					
14.14.25.25.10.10.10.10.10.10.10.10.10.10.10.10.10.	SPEED OF SOUND KNOTS		Tecac	0.000	T • • • • • • • • • • • • • • • • • • •	5,85.1					584.7	584.7	584.7	584.7	584.6	584.6	584•6	584.6	584.6					585.1		2000				2000	589.2	589.8	290.4	591.0	591.5	592.1
UPPER AIK DATA 1050020154 WHITE SANDS TABLE 19 CONT'D	DENSITY GM/CUBIC METER	11		3,40	7 - OC	2.00 K.4E	33.6	32.H	32.1	31.4	30.7	30.0	29.3	28.6	28.0	27.3	26.7	26.1	25.5	25.0	24.4	23.8	23.3	22.7	31.4	21.0	****	2000	1.07	0.61	19.1	18.7	18.2	٠,	•	16.9
2 F	REL . HUM. PERCENT																																			
3989.00 FEET MSL 0908 HRS MST 4	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	- 6	1104			0.041	2"-7"-	7-17-	-47.8	-47.9	6-27-	6.7.4	-47.9	-47.9	-47.9	-47.9	0.84	-48.0	0.84-	0.84	-48.0	0.84	0.81-	-t-1-	7014	7.00	3 0 1	D . C.	7 · 0 · 1 · 1	か・オー	***	0.44	-43.5	0.64	-	-42·1
S	PRESSURE MILLIBARS		_	•	•	25.00						•	•	•	18.1	•	•	-	_	•	15.8		•	7 - 5 - 7		4 4 4		•	100		•	•	•	11.7	_	11.2
STATION ALTITUDE 15 APR. 82 ASCENSION NO. 1	GEOMETRIC ALTITUDE MSL FEET I		0.0000	0.000.0	0.000.0	850000	2,000,00	•		٥		ė	•	89500.0	0.00006	0.00506	91000.0	91500.0	92000-0	92500.0	93000-0	93500.0	0.000+6	0.00546	0.00000	0.00040	00000	9.0000	B-00076	0.00C/A	98000.0	98500-0	0.00066		100000 T	100500.0

89.n0 FEET M 0904 HRS MST 855URE GEOP	NE 3989.00 FEET MSL 0908 HRS MST 154 PRESSURE GEOPOTENTIAL	TEW AIR	MANDATORY LEVELS 1050020154 WHITE SANUS TABLE 20 TEMPERATURE NEL	EVELS 54 US WEL. HUM. PERCENT		⋖	VEODETIC COORDINATES 32.4U043 LAT LEG 106.37033 LON DEG 1A
FEET		DEGREES	CENTIGRADE		DEGREES (TN)	KNOTS	
4718.		19.3	-7.1	16.	270-1	23.7	
6411.		14.7	-10.0	17.	569.6	14.1	
8183.		9.6	-13.3	18.	526.9	12.4	
10044.		5.1	-16.6	19.	267.2	24.4	
12009.		.7	-20.0	19.	275.0	35.8	
14106.		-2.9	-21.8	21.	568.9	31.3	
16347.		-7.8	-23.0	28•	266.0	31.0	
18761.		-12.5	-28.8	24.	569.4	31.4	
21364.		-19.5	-34.6	25.	267.3	36.1	
24222.		-24.5	-39.8	22•	269∙8	42.9	
27377.		-30.6	-45.5	21.	274.4	65.4	
30912.		-38.9	-52.1	23•	270.6	76.1	
34933.		-48.5			273.9	24.7	
39666.		-54.6			273.4	75.0	
42457		-57.6			271.1	80.7	
45625		6.09-			269.0	78.0	
49322.		-63.5			564.9	63.6	
53851.		-58.6			279.9	13.2	
58363.		-64.9			265.6	43.8	
61061.		-62.4			147.2	2.4	
64181.		-62.2			264.7	23.4	
67938.		-56.6			104.0	10.0	
72601.		-54.8			330.5	3.3	
78671.		-52.4			264.5	10.2	
82564,		-49.5			241.5	3.7	
87389.		-47.9			69.2	7.0	
93614.		-48.0			236.7	15,6	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SIGNIFICANT LEVEL UATA	HOLLOMAI	TABLE 21

•E0DETIC COOHDINATES 32•88865 LAT DEG 106•09965 LON DEG

REL.HUM. PERCENT	1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
RATURE DEWPOIN1 CENTIGRADE	1	
TEMPEI AIR DEGREES	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4
GEOMETRIC ALTITUDE MSL FEET	4126.6 4404.6 6358.7 10067.3 116967.3 116967.3 116963.9 116903.9 1	115
PRESSURE MILLIBARS	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	• • •

	SIGNIFICAN
CTATION ALTITUDE 4126.59 FFFT NSL	1050
15 APR. A2 090A HRS MST	HOLLO
ASCENSION NO. 106	
	TARI

IFICANT LEVEL DAIA 1050010100 HOLLOMAN

TABLE 21 CONT'D

REL.HUM. PERLENT

TEMPERATUKE AIR DEWPOINT DEGREES CENTIGRAUE

PRESSURE GEOMETRIC ALTITUDE #ILLIBARS MSL FEET

-40.1 -37.8 -38.7 -38.8 10.0 103324.8 8.5 107021.2 7.0 111452.1 5.9 115346.8

•E0DETIC COOMDINATES 32•U8865 LAT DEG 106•U9965 LON DEG

41

DETIC COORDINATES 32.88865 LAF DEG 106.09965 LON DEG	INUEX OF REFRACTION	•	•	•	•	• 00025	•		•	•	1.000226	_	•	1.000214	1.000210	1.000206	1.000202	•	1.000195	•	•	1.000185	1.000162	1.000179		•	•	1.000166	1.000:63	•	•	•		•	.0001	.0001	•	.0001	1.000137	1.000134	1.000132	1.000129
6EODETIC 32•88 106•09	PEED	,	6.1	9 (2.5	7.9	10.1	11.9	4.07	74.3	•	**	•	÷	ė.	=	ė	19.2	23.8	27.8	28.5	29.3	31.1	32.2	32.8	32.0	30.6	30.9	22.0	0.40) r	25.1	0.00	500	33.9	33.2	32.8	33.1	33.3	33.3	•	39.4
	"INU DATA UIRECTION SI UEGREES(IN) KI	,	270.0	7.02	250.0	258.u	257.6	253.9	248.	245.3	~ :	2007	25/08	5007 C-907	276-1	278.0	3,82	211.9	2/6.4	274.0	2.2.	272.0	2/1/2	270.7	2/0.3	2/0.5	2/1.0	2,0.8	**************************************	2.00	2000	C02		0.767	255.4	526.0	257.7	261.3	564.4	2,00.2	80	270.4
)41A	SPEED OF SOUND KNOTS		667.5	7.199	665.7	0.499	4.299	9-099	629·4	658•0	656.6	6220	653.9	652.5	651.1		9.849									637	636.0	635.7	654.5	0.00	652.5	0.100	1.679	5.829	620.8	625.3	623.8	622.4	621.2	621.2		618.5
UPPER AIK DAT 1050010100 HOLLOMAN TABLE 22	DENSITY S GM/CUBIC METER		1030.5	1016.3	1004.4	991.6	978.9	966.1	452.5	939.1	925.9	912.9	1.006	887.5	875.1	862.0	849.0	836.3	823.7	811.3	199.2	787.2	775.4	763.8	752.4	741.2	730-1	716.6	702.5	7	1.000	2.20	9.100	9.100	641.6	631.8	622.1	612.6	•	ċ	280.5	571.6
	REL.HUM. PERCENT	•	14.0	33.0	33.5	33.9	34.6	34.0	34.	34.46	34.1	5.0	33.6	33.3	33.0	33.2	33.5	33.7	34.0	24.0	34.5	34.7	35.0	35.2	35.5	35.8	35.9	31.0	30.0	1 00		53.5	1,62	23.62	29.4	29.5	29.7	29.9	30.0	•	•	30.0
T MSL MST	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE		•	5.	•	•	# 	-1.4	-2.5	-3.7	8.4	5.0	-7.0	•	ċ	-101-	-10.9	-11.8	-12.6	-13.5	-14.3	-15.1	-16.0	-16.9	-17.7	-18.6	5.61	-21.3	122.3	0.00	7:50	4.07	֓֞֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֡֓֓֡֓֡֓	2	, 28	50	30.	31.	32.	-32.2	•	-34-1
26.59 FEET MSL 0908 HRS MST	TEMP AIR DEGREES	•	20.0	19.6	17.9	16.5	15.1	13.8	12.6	11.5	10.3	2.6	0·8	6•9	ນ. ຜ	4.7	3.6	5. 0	1.5	٥,	9	-1.6	-2.7	-3.7	Ø: 11	6.2-	6.01	-7:1	200			0 1 1	•	7.01	5. 1.	12.6	-16.8	-18.0	-19.0	-19.0	т.	-21.2
1 ^U 0c ⁴ 1	PRESSURE MILLIBARS		868.4	857.0	841.9	820.9	812.3	797.8	183.3	769.1	755-1	147	127.9	714.7	701.7	9.889	675.6	662.8	650 - 3	038-1	0500	614.2	005.	591.3	580.1	569.2	556.5	247.	55/10		010	7 000 c	2000	1000	470.1	167.2	457.9	8.844	439.8	431.0	456.2	415.6
STATION ALTI 15 APR. 62 ASCENSION NO	GEOMETRIC ALTITUDE MSL FEET		4126.6	4200.0	2000-0	5500.0	0.0009	6500.0	7000 °0	7500.0	G-0008	8200·Û	0.0006	•	10000.0	10500-0	11000.8	11500.0	12000-0	12500.0	3000	3500.	_	4500.	5000	•	16000-0	16500.0	7.000.7	0.0007	100001	0.00cor	٠	•	20000-0	ċ	21000.0	•	ė	22500.0	÷	23500.0

STATION AL	TUDE 41	4126.59 FEET M 0908 HRS MST	ET MSL MST	-	UPPER AIR D _e ta 1050010106 Holloman	Oc.		VEODET1	
ASCENSION NO	NO. 106			TA	TABLE 22 CON	CONT 'D		• 001	69965 LON UEG
GEOMETRIC ALTITUDE	3	TEMP AIR	TEMPERATURE R DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEED OF SOUND	WINC DATA	SPEED	INCEX OF OF
MSC FEET	MILLIDARS	DEGMEES			TF 15.7	KNOIS	()EGMEC3, 114)	21014	MET MAC 1 JON
24000.0	405	-22.5	-35.2	30.0	562.9	610.9	271.8	LO.	1.000127
24500.0	390	-23.7	-36+3	30.0	554.2		272.7	51.3	1.000125
25000.0	386	6.42-	-37.4	30.0	545.3		274.5	53.1	1.000123
25500.0	380	-26.0	-38.4	30.0	536.4		275.6	53.8	1.000121
26000-0			-38.6	30.0	525.7		2,17.2	53.2	1.000118
26500.0			-39.5	30.0	516.9		277.9	53.6	
27000-0			-40.5	30.0	508.2		277.5	55.9	•
27500 · D			-41.5	• 30•0	4664		276.5	58.3	•
28000•p			-42.5	30.0	491.3		275.5	60.7	1.000110
2850000			-43.5	30.0	•	605.3	274.7	62.7	•
0.00062			†• † • † •	30.0	475.0	_	274.0	64.3	1.000107
29500.0			-42.4	30.0	467.0		273.5	65.5	1.000105
30000.0			46.4	30.0	459.2		273.0	66.5	1.000103
30500-0			1-41-4	30.0	451.6		273.0	68.4	•
31000 p			1.81-	30.0	0.444		273.1	70.5	•
31500.0			9.65-	29.6*	436.6		273.4	73.2	1.000098
32000.0			-52.0	25.5**	429.2		273.7	76.1	1.000096
3250000			-54 • 5	21.4**	421.9		273.8	78.1	1.000094
33000-10			-57.3	17.3**	414.7		2/3.8	79.8	•
33500.0		-43.5	1.09-	•	407.7		5.73.0	80.7	1.000091
34000-0			-64.2	*	400.8		3.472	80.8	•
34500.0			-69.5	2.04	394.0		2,4.2	80.6	1.000088
35000-0			-81.4	**6*	300		2.4.5	6.67	•
35500-0		1 to 1			380.6		T = 100	7,60.1	1.000085
00000					2,0,0		27.7	F • 0 /	•
37000-1		150.7			360.2	500°C	2000	75.0	1.000082
37500-0					F 400E		274.2	75.4	
38000.0					348.1		274.1	75.6	•
38500.0					341.1		274.5	75.9	1.000076
39000.0					333.2		274.3	76.3	1.000074
39500.0					325.4		273.9	77.1	
40000					316.7	575.8	273.0	77.9	1.000071
40500.0					310.3	574.9	272.9	80.7	1.000069
41000.0					303.9		272.2	83.8	1.000068
41500.0		-56			97.		271.5	96.6	1.000066
42000.0					Q.	572	270.6	89.3	1.000065
42500-0	170.2	•			•	571.3	270.0	4.06	1.000064
43000.0		•			~ (570.9	70.60	87.9	1.000062
#3200°ÿ	167.9	-58.6			272.7	570.0	268•U	85.1	1.000061

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	UPPER AIR DATA	
LTITUDE 4126.59 FEET MSL	105001010	GEODET
2 090A HRS MST	HOLLOMAN	35
, , , , , , , , , , , , , , , , , , , ,	CILIOS CO LICER	

			<u> </u>	IABLE 44 CUN	CONT'D		106.	06-09965 LON DEG
GEUMETRIC ALIITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEEJ OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(IN) K	JA SPEED KNOTS	INUEX OF REFRACTION
0.00044		-c8.9		266.5		5000	80.5	1.000059
44500.0	160.	6		260.4	564.9	265.7	ŝ	1.000058
	15.	1.04		254.5		204.3	74.6	1.000057
	ָ ביי			240.7	569.0	3 495	74.4	250005
	•	0.00		140		1000	10.0	700001
460000	148	-5949		243.1		0.00%	3	•
46500.0	•	-60.2		237.6	568.5	202.5	77.9	•
47000-3	141	-60.5		232.2	568.1	202.5	77.3	1.000052
•		-60.8		226.9	567.7	265.3	75.9	1.000051
-	135	-61.0		221.7		265.2	711.7	1.000049
	131	0.04		215.2		5.40%	65.0	1.000048
	7 (7-8-1		2000		7.400	444	1 - 000047
		0.00		2002	1.600	1,446	2 4	440000
9-00064	100	12740				4.602		100001
	727	7.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		200.		0.007	7.00	C*0000 T
	611	153.0		195.5		50/02	8 · / ÷	1.000043
27000.6	110.	-60.0		190.7		209.6	45°8	1.000042
21200.0	113	0.09-		186.2	564.8	2/2.1	2.2	1.000041
÷	111.	-60.1		181.7		214.1	37.1	1.000040
52500.0		7.09-		177.9		278.1	31.9	1.000040
•	105.	9.09-		173.6		279.0	25.6	1.000039
53500.0		-60.3		169.1	568.4	281.9	19.2	1.000038
	100.	-59.9		164.8		219.1	16.2	1.000037
54500.0	98•	-59.9		160.8		2.472	3	1.000036
	90.	-60-1		157.1	-	268.0	3	1.000035
	95.	-60.3		153.4		70207	17.1	1.000034
56000.¢		#•09-		149.9		262∙8	19.1	1.000033
_	89.	-61.0		146.7		262.4	20.7	1.000033
	87.	-61.9		143.7	566.2	202.0	22.3	1.000032
57500.0	85	-62.8		140.8		261.0	23.0	1.000031
58000.0	95	-63.7		138.0	563.6	261.3	23.4	1.000031
•	81	-64.1		134.9	563.3	560.9	23.6	1.000030
59000-0		-63.9		131.5		260.5	23.4	1.000029
	77	-63.6		128.1		7•097	23.1	1.000029
	75	4.63-		124.9	564.2	6.662	23.1	1.000028
•	7.3	-63.1		121.7		9.667	23.2	1.000027
•	71.	-62.9		118.6		259.3	m	1.000026
	•69	-62.7		115.6		258∙0	0	1.000026
62000.0	99	-62.6		112.7		526.4		1.000025
62500.0		-62.5		110.0		253.0	5	•
63000.8	949	162.5		107		4.440	c	0000
						2.01	7.5	

STATION ALIITUD 15 APR. 62 ASCENSION NO.	. J. 2	4126.59 FEET MSL 0908 HRS MST 6	E E	UPPER AIR DATA 105001010b HOLLOMAN	DATA do		6E0DET1 32.	GEODETIC COORDINATES 32. BUBGS LAT DEG 106. U9965 LON DEG
			מל ל	i	-			
GEOMETRIC	PRESSURE		REL.HUM.	DENSITY	Speen of	WING DATA	41	INUEX
ALTITUDE		AIR	PERCENT	2	Sound	DIRECTION	SPEED	Ą
MSL FEET	MILLIBARS	8		METER	KNOTS	riegrees (IN)	KNOTS	HEFRACT 10N
0.000%9	•	-62.3		102.1	565.7	235.0	7.8	1.000023
64500.0		-60.3		98.6		228.7	6.7	1.000022
62000-0	, Ro	-59.3		95.9		250.2	5.8	1.000021
65500.0	ß	-59.3		93.6		209.7	5.1	1.000021
Q-00099	S	-58.6		91.0		190.1	4.6	1.000020
66500-0	ស (-57.8		88.6		179.2	3.5	1.000020
0.000.0		15/00		1 4 5	57.2.8	1000	4	010001
64000.0	יט כ	រ ។ ពេក្ស		81.5		125.4	5	1.000018
68500.0) 4	154.00		79.4		112.7	5.7	1.000018
69000.0	3	-54.9		77.6		103.5	6.2	1.000017
69500.0	*	154.0		75.8		95.6	6.5	1.000017
70000	#	-55.0		74.0	575.4	3 · 88	7.1	1.000016
70500.0	#	-55.		72.3	575.3	5°-78	7.6	
11000.0	.	-55.Z		9.07		0.00	12.4	.0000
71500.0	#	155.2		0.69		6.78	16.4	1.000015
72000-0		70 4 10 4 10 11 10 11		4.76 4.78	575.0	5.60 6.00	27.18	1.000015
73000.0	7 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		64.3		4.50	23.8	1.000014
73500.0	ריו י			62.7	575.3	90.06	20.0	1.000014
74000.0	Š	-54.9		61.2	575.6	101.5	15.8	1.000014
74500-0	ריי	-54.6		59.7		110.2	10.2	1.000013
75000-8				56.3	576.2	137.0	10 s	1.000013
76000-0	3 P)			30.00	5,000	216.5	, ru	1.000012
76500.0	ניש ו			54.1		225-1	6.5	1.000012
77000-0	(7)			52.8		231.4	7.5	1.000012
77500.0	m			51.5		239.4	8.7	1.00001
78000-0	י	153.0		50.3		245.7	10.0	1.000011
78500-0	LO 1	-52.7		0.64		4.00%	11.4	1.000011
79000-0	i,	152.5		8.74		255.9	13.8	1.000011
A00000		15/201		- C - C - C - C - C - C - C - C - C - C	5.675	2000	10.0	1.000010
80500	, c	10100		7 1 2		764.5		
81000.0	1 (V)	-50.7		43.3	581.1	265.6	22.0	1.000010
81500.0	N	-50.2		42.2	581.7	566.b	22.7	1.000009
82000.0	~	T.64-		T•†#	582+3	267.0	25.3	1.000009
82500.0	C) C	2.64.		40.1	585.9	268.3	31.5	1.000009
02000.00 0350		\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1.60	583.6	0.00%	0 . C .	6000001
4.00000	N	C.03		7000	200	7.707	20.7	1.000008

	UPPER AIR DATA	
STATION ALIITUDE 4126.59 FEFT MSL	105001010 ₆	UEODET 1
15 APR. 62 0908 HRS MST	HOLLOMAN	32.
		104

STATION ALIITUDE	•	4126.59 FEET MSL 0908 HRS MST	,	UPPER AIN DATA 1050010105 HOLLOMAN	0 α α α α α α α α α α α α α α α α α α α		0E0DET10	GEODETIC COORDINATES 32.68865 LAT DEG
ASCENSION NO	NO. 166		TAE	TABLE 22 CON	CONT 1D		907	UYYOS LUN UE6
GEOMETRIC ALTITUDE MSL FFFT	PRESSURE MILLIHARS	TEMPERATURE AIR DEWPOINT DEAREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEEU OF SOUND KNOTS	WIND DATA DIRECTION SPEED DEGREES(IN) KNOTS	TA SPEED KNOTS	INUEX OF REFRACTION
				•	2	!)	
84000.0	•	-47.8		37.2		271.3	36.6	1.000008
84500.0	23.5	-47.5		36.3		2/4.1	30.8	1.000008
85000.0	23.0	-47.6		35.8		278.2	25.0	00000
85500.0	22.4	7.7.		34.7		286.6	14.0	1.000008
86000-9	21.9	-47.8		33.9		341.9	4.5	•
86500.8	21	61.4		33.2		96.5	11.6	•
٠,	21.	6.74-		32.4	584.	9.7	13.1	1.000001
87500-0	2	0.84-		31.7		72.6	•	1.000007
88000-0	20.0	148.1		31.0		9.0	n :	1.000001
88200-10	57	N-94-		30.		7. O. P.	• 1	•
0.00069	<u> </u>	-48.5		29.6		2/3.8	1.5	1.00000
89500.0		9 · · · · · · · · · · · · · · · · · · ·		0 · ac	583.7	26.5	0	1.00000
0.0000 0.00000				76		263.4	, ,	•
0.0000	٠.					255.		90000
0.00216	17.1	3 + 62 = 1		26.4	584.0	241.6	**	1.00000
92000-0	•	-48.2		25.8		216.3	4.0	1.000006
92500.0		148.0		25.2		192.2	5.0	1.000006
93000-0	-	-47.8		24.6		175.6	6.3	1.000005
93500.0	~	-47.6		24.0		170.6	8.5	
0.00046	-	5-/-		23.5		169.6	10.3	•
94500.0	~	10/4-		22.9		10902	12.4	•
95000.0	-	7.94-		22.4		1/3.4	13.6	•
95500.0	~ .	# · · · · · · · · · · · · · · · · · · ·		27.6	586.7	1900	10.	1.00000
96500	3 5	1 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1		C • 12		221.2	18.5	•
97000	;	0.00		F 000		227.0	19.8	1.000005
97500.0	•	0.33		19.8	588-7	230-1	19.5	1.000004
98000-0	N	4 - 4 - 4 - 1		19.3		233.5	19.3	1.000004
98500.0	12.4	0.44.		18.9	589.	230.5	19.1	1.000004
Ø-00066	å	-43.6		18.4		239.7	19.1	٠
99500.0	;	-43.2		18.0	590.	235.6	9	.00000
0	~	-42.8		17.5	·769	229•B	n	1.000004
•	-	-42.4		17.1	591.	220.4	10.3	1.000004
101000.0	1101	142.0		16.7	592	205.0	8.0	00000
o	÷	-41.6		16.5	59%	204.9	0.8	1.000004
000	å	-41.2		15.9	593.	3	13.1	00000
102500.0	9	å.		15.6	593	7.47	19.5	1.000003
900	o :	ė		•	966	252.	26.2	0000
103200-0	•	0.031		8.41	D	6.00%	1.00	1.600003

GEODETIC COOKUINATES 32-64865 LAT DEG 106-09965 LON DEG	INUEX OF REFRACTION	1.000003	1.000003	1.000003	1.000003	1.000003	1.000003	1.000003	1.000003	1.000003	1.000003	1.000063	1.000003	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002	1.000002
6E0DET1 32• 106•	SPEED KNOTS	30.7	25.2	20.0	15.2	11.8	16.3	21.6	27.2	32.9	40.7	51.9	63.0	74.2	85.5	82.8	73.6	64.5	55.4	46.4				
	WIND DATA ILECTION SI DEGREES(IN) K	254.2	250.0	243.5	232.7	216.0	233.2	242.1	247.5	251·U	253.8	256.2	257.7	258.8	259.5	259.1	258.0	256.5	254.0	251.9				
DATA De T'D	SPEED OF SOUND KNOTS	595.3	595.7	596.1	596.5	596.8	597.2	597.6	597.5	597.4	597.3	597.1	597.0	596.9	596.8	590.6	596.5	596.5	596.5	596.5	596.4	296.4	596.4	596.4
UPPER AIN DATA 1050010106 HOLLOMAN TABLE 22 CONT ¹ D	DENSITY S GM/CUBIC METER	14.5	14.2	13.8	13.5	13.2	12.9	12.6	12.3	12.1	11.8	11.6	11.3	11.1	10.8	10.6	10.4	10.2	6.6	4.1	9.5	9.3	9.1	8.9
TA	REL. HUM. PERCENT																							
ET MSL MST	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE																							
4126.59 FEET MSL 0908 HRS MST 6	TEMF AIR Degrees	-39.7	-39.4	-39.1	-38.7	-38.4	-38.1	-37.8	-37.9	-38.0	-38.1	-38.2	-38.3	-38.4	-38.5	-38.6	-38.7	-38.7	-38.7	-38.7	-38.8	-38.8	-38.8	-38.8
10 10	PRESSURE MILLIUARS	7.6	4.5	٠. د.	1.5	6.8	8.7	α. Ω.	8.3	8.1	0.8	7.8	7.6	7.5	7.3	7.1	7:0	6.	٥.	6.5	*• 9	6.3	1.0	0•9
STATION ALTITUDE 15 APR. B2 ASCENSION NO. 1	GEOMETRIC ALTITUDE MSL FEET	104000.0	104500.0	105000.0	105500.0	106000.0	100500.8	107000.0	107500.0	108000.0	108500.0	1090001	109500.0	110000.0	110500.0	111000.0	111500.0	112000.0	112500.0	113000.0	113500.0	114000.0	114500-0	115060.0

чЕОDETIC СООКDINATES 32.88865 LAT DEG 106.09965 LON DEG																																
vEODET 32 106	ATA SPEED	KNOTS	4.5	11.6	14.8	10.7	24.1		700	200	0.00	80 0	000	70.7	1.7.	9.77	89.7	74.5	54.0	12.8	23.5	71.1	0 :	٠ • •	50.0	D	2.65	3	11.5	30.0	75.4	
	WIND DATA	DEGREES (TN)	261.3	254.8	245.5		276.2	2/1•0	270.9	261.9	260.8			273.2	274.6	273.7	269•B	564.9		278.1		258.2	527.0	115.8	93.6	257.5	508.5	72.6	169.1	254.0	258.2	
EVELS	HEL.HUM. PERCENT	I	35.	35.	34•	33.	9 10 10 10 10 10 10 10 10 10 10 10 10 10	35.	32.	29.	30.	30.	30.	30.																		
MANDATORY LEVELS 1050010106 HOLLOMAN TABLE 23	TEMPERATURE R DEWPOINT	CENTIGRADE	2.1	-1.3	-5.2	7-6-	-12.6	-16.2	-50.9	-56.0	-31.2	-36.0	4.14-	1.84-																		
Σ	TEMPE AIR	Ś	18.7	14.0	6.6	5.6	1.5	-2.9	-7.1	-11.6	-17.9	-25.3	-29.5	-37.4	-47.5	-54.5	-58.2	-59.8	-59.8	-59.8	0.49-	-62.7	-59.7	-54.8	-55.3	-52.4	-48.6	-48.1	-47.3	-40.1	-38.7	
, MSL 451	PRESSURE GEOPOTENTIAL	FEET D	4728.	6420.	8192.	10058.	12031.	14129.	16371.	18790.	21408.	24273.	27440.	30991.	35033.	39761.	42541.	45714.	* 5556	54012.	58549.	61242.	64365.	68142.	72817.	78880.	82781.	87612.	93830.	102768.	110809.	
E 4126.59 FEET MSL 0908 HRS MST 106	PRESSURE GE	MILLIBARS	A50.0	0.00a	750.0	200.0	650.0	0.009	550.4	200.0	450.0	400.0	350.0	300.0	250.0	200-6	175.0	150.0	125.0	100.0	80.0	70.0	0.09	50.0	0.04	30.0	55.0	20.0	15.0	10.0	7.0	
STATION ALTITUDE 15 APR. 62 ASCENSION NO. 1																																

** AI LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDI 15 APR· 62 ASCENSION NO.	TUDE . 2	4051.00 FEET MSL 0908 HRS MST 2	ET MSL MST	<u> </u>	UPPER AIK DAT 1050030022 JALLEN TABLE 25	2 × 1 A		9E0DLTI 33. 106.	9ΕΟΌΣΤΙΣ CΟΘΙΌΙΝΑΤΕS 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIDARS	DE	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	REL HUM. PERCENT	DENSITY GM/CURIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SI	SPEED KNOTS	INUEX OF REFRACTION
					ı		,		
4051.D	871.6	18.9	-11-1	12.0	1038.5		190.0	1.9	1.000243
4500.0	857.8	18.0	0.6-	15.0	1025.1	065.1	227.1	2.1	1.000242
5000.0	842.5	16.5	€.6-	16.1	1011.9		252.7	3.0	•
5500.0	827.4	15.3	-10.1	16.3	997.9		205.1	4.2	1.000235
6000	812.6	14.1	-10.9	16.5	1.486	2.099	271.8	5.6	1.000231
e500•0	790.0	13.0	-11.7	ç	970 • i		279.1	6.9	1.000228
7000.0	;	11.8	-12.5	9	957.2		280.0	8.5	1.000224
7500.0	769.6	10.5	-13.3	17.3	0.446		289•U	9.5	1.000221
0.000x	755.6	9•3	-13.8	18.0	931.1		273.2	8•0	1.000217
8500.0	741.8	8•0	-14.4	18.7	918.4		560.4	8.2	1.000214
0.0006	72	6.1	-15.5	18.5	905.6		263.5	10.6	
9500-0	7.	5.5	-17.0	~	892.9		205.7	13.4	.00020
10000	70	£ • 4	-18.5	17.1	880.4		207.5	9	1.000203
10500.0	99	3.2	-19.3	~	867.2		209.0	19.4	1.000200
11000.0	675.7	2.5	-19.9	~	854.1	_	270.0	21.5	1.000197
11500.0	663.1	1.2	-20.5	~	841.2		272.1	22.1	1.000193
12000-0	650.6	•	-21.4	~	828.5		273∙0	22.2	•
12500.0	638.2	8.	-22.7	~	816.0		271.5	25.2	.00018
13000.0	626.1	-1.9	-24.0	16.5	803.7		268.5	22.1	1.000184
3500.	614.2	-3.0	-25.3	15.9	791.6		500.1	23.0	٠
14000.0	602.5	-4.1	-56.6	n.	779.6	639.2	265.4	24.1	1.000177
4500.	591.0	-5-1	-27.9	14.7	767.9	637.9	265.0	25.3	•
15000.0	579.8	7.9	-59.5	14.1	756.3	636.6	502.	56.6	1.000171
15500.0	268.6	1.7 -	130.0	14.3	745.0	635.2	264.9	27.9	1.000169
0009	25/•3	9.0	-30-8	¥••	733.9		203.1	28.9	1.000166
16500-3	740.	9.6	-31.6	5.0	723.0	632.3	261.5	29.9	1.000163
1000	0.350	-10.2	-31.8	•	110.1	631.8	5060	59.9	•
_	325	-11-3	-32.7	•	0.669	630.5	207.5	30.0	1.000158
8000	1010	12.	9.00	•	D. 550	2.629	0.00	۸. ۲۰۸۷	0000
	0.000	C•CI_	24.5	13.0	C.//0	6.120	7 - OC 7	9.62	•
19000.0	6.464	-14.6	-35.4	15.1	666.7	620.5	40/07	29.5	•
19500.0	484.9	-15.8	-36.3	15.2	656.3	625.0	7-657	30.5	1.000148
20000-0	475.1	-17.0	-37.2	15.3	646.0		200.7	31.4	1.000145
20500.0	465.5	-18.2	-38.2		636.0	022.	201.0	32.1	1.000143
21000.0	456.0	-19.4	-39.1	15.5	620.1	020.0	260.7	32.7	1.000141
21500.0	446.8	-20.7	0.04-	15.6	616.3	19.10	260.5	33.3	1.000138
22000.0	437.7	-21.9	-41.0	15.7	8.009	617.0	760.0	33.4	1.000136
÷	428.9	-23.1	-41.9	15.8	597.4		•	33.5	1.000134
23000.0	450.5	-54.3	-45.9	15.9	588.1	614.6	<01.5	•	1.000132
23500.0	411.6	-25.4	-43.7	16.0	578.7	613.2	70100	35.6	1.000130

140 C F D C F C C C C C C C C C C C C C C C	STATION ALIITUDE 4051 15 APR. 82 09 ASCENSION NO. 22	051.n0 FEFT MSL 0908 HRS MST	T MSL MST		UPPER AIR DAIR 1050030022 JALLEN TABLE 25 CONT	22. CONT * D		GEODET 1 33. 106.	VEODETIC COOKDINATES 33.10712 LAT DEG 106.49511 LON DEG
DEWPOINT PERCENT GMZCMALC SOUND LIARCETTON SPEED -44.5 16.0 559.4 612-1 201.9 37.2 -45.4 16.1 559.4 612-1 201.9 39.7 -49.4 16.5 591.6 609.1 201.9 39.7 -49.4 16.5 591.6 609.1 201.9 39.7 -49.4 16.5 591.6 609.1 201.9 56.3 -49.4 16.7 591.6 609.1 201.9 56.3 -49.4 16.7 591.6 609.1 201.9 56.3 -49.4 16.7 591.6 609.1 201.9 56.3 -51.6 14.9** 595.0 604.1 201.9 56.3 -51.6 14.9** 606.9 601.0 274.0 64.3 -52.4 17.4 17.0 592.0 602.1 201.9 60.3 -52.4 19.4 19.4 19.8 598.3 274.9 68.6 -52.4 19.4 19.4 19.8 598.3 274.9 86.6 -52.4 19.4 19.4 19.8 598.3 274.9 86.8 -66.8 3.6 4 45.4 592.7 274.9 86.8 -74.1 14.4 4 402.6 583.7 274.9 86.8 -74.1 14.4 4 402.6 583.7 274.9 88.8 -74.1 14.4 57.9 57.4 200.1 83.0 -74.1 20.1 57.4 200.1 83.0 -74.1 20.1 57.4 200.1 83.0 -74.1 20.1 57.4 200.1 77.4 -74.1 20.1 57.7 200.1 77.4		TEMP	ERATURE	REL. HUM.	DENSITY	SPEEU OF	WIND DA	A1.	INVEX
-44.5 16.0 568.7 612.1 261.9 37.2 -44.5 16.1 559.4 610.7 263.0 49.4 16.5 559.4 610.7 263.0 49.4 16.5 559.4 610.7 263.0 49.4 16.5 553.4 605.8 270.5 56.5 14.9 46.5 14.9 61.0 573.0 610.1 273.0 12.7** 496.9 610.0 274.0 56.0 14.9 61.0 573.0 610.1 273.0 610.2 273.0 610.2 273.0 610.2 273.0 610.3 274.	_		DEWPOINT CENTIGRADE		GM/CUBIC METER	STONA	LEGREES (1N)	KNOTS	Or REFRACTION
-45.4 16.1 559.4 b10.7 263.0 39.7 -46.4 16.5 550.6 b10.7 265.1 42.3 -47.4 16.5 550.6 b10.7 265.1 42.3 -47.4 16.5 550.6 b10.1 273.0 42.3 -49.4 16.7 523.4 b10.2 273.0 56.2 55.4 16.4 525.0 b10.1 273.0 56.3 56.3 56.4 16.4 505.7 b10.2 273.0 56.3 56.5 56.4 16.4 505.7 b10.2 273.0 56.5 56.3 56.5 56.4 16.4 505.7 b10.2 273.0 56.5 56.5 56.5 56.4 16.4 56.5 56.5 56.5 56.5 56.5 56.5 56.5 5		-26.3	-44.5	16.0	568.7		6.192	37.2	1.000127
-46.4 16.3 550.6 609.1 265.1 46.2 14.4 16.5 541.9 607.4 207.9 16.7 541.9 607.4 207.9 16.2 16.4 555.0 604.1 270.5 56.3 16.9 55.0 604.1 270.5 56.3 16.9 607.4 270.5 16.4 17.0 525.0 604.1 270.5 16.4 555.0 604.1 270.5 16.9 601.0 270.5 16.9 601.0 270.5 16.9 601.0 270.5 16.9 601.0 270.5 16.9 601.0 270.5 16.9 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 601.0 270.5 16.0 270.5 16.0 601.0 270.5 16.		-27.4	-45.4	16.1	559.4		263.0	39.7	1.000125
-47.4 16.5 591.9 607.4 267.9 46.2 -49.4 17.0 525.0 609.8 270.5 50.3 50.3 50.3 50.5 4 50.5 4 50.5 50.5 50.5 50.5 50.5		-58.8	4.94-	16.3	550.6		265.1	42.3	1.000123
-48.4 16.7 533.4 605.8 270.5 56.3 14.9.4 16.7 553.4 605.8 273.0 58.2 12.7 4 605.9 273.0 58.2 12.7 4 605.9 12.7 4 605.9 601.0 274.0 58.2 12.7 4 605.9 601.0 274.0 58.2 12.7 4 605.9 601.0 274.0 52.0 58.2 12.7 4 605.9 601.0 274.0 57.0 66.8 13.6 4 67.5 59.9 275.1 66.5 14.7 1.5 59.9 274.5 274.5 17.1 14.4 4 67.5 59.9 2 274.5 17.2 274.5 17.2 274.5 17.2 274.5 17.1 14.4 4 67.5 59.9 2 274.5 17.2 274.5 17.1 14.4 4 67.5 59.0 2 274.5 17.2 274.5 17.1 14.4 4 67.5 59.0 2 274.5 17.1 14.4 4 67.5 59.0 2 274.5 17.1 14.4 4 67.5 59.0 2 274.5 17.1 14.4 4 67.5 59.0 2 274.5 17.1 14.4 17.0 58.0 2 274.5 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17		-30-1	4-64-	16.5	541.9		267.9	46.2	1.000121
149.4 17.0 525.0 604.1 272.0 54.3 14.0 555.2 603.3 273.0 273.0 604.2 273.0 604.3 253.9 12.7** 476.9 601.0 274.0 62.0 64.3 10.4** 479.8 598.3 275.1 66.5 6.5 470.1 59.4 471.5 598.3 274.2 774.9 601.0 274.0 62.0 64.3 12.7** 471.5 598.3 274.2 774.2 72.2 74.1 1.4** 475.4 598.5 274.5 274.2 770.9 475.4 475.4 598.7 273.7 770.9 471.0 588.7 273.7 770.9 471.0 588.7 273.7 770.9 471.0 588.7 273.7 770.9 471.0 588.7 274.1 86.8 86.3 373.7 575.8 274.1 274.5 86.3 373.7 575.8 274.1 274.5 86.3 373.7 575.8 274.1 270.0 88.8 373.7 570.0 871.0 871.0 871.0 871.0 271.7 84.5 271.7 84.5 271.7 84.5 271.7 84.5 271.7 84.5 271.7 84.5 271.7 84.5 271.7 871.0 271.7 271.		-31.4	7.87-	16.7	533.4	_	270.5	50.3	1.000119
-510.2 15.4		-32.7	7.64-	17.0	525.0		272.0	54° 3	1.000117
-53.9 12.7** 496.9 601.0 274.0 64.3 10.4** 486.3 596.9 274.5 10.4** 466.5 596.9 275.1 666.5 14.9** 479.8 596.9 274.5 170.4 55.9 45.4 19.4 463.4 596.9 274.5 170.4 55.9 45.4 19.4 596.9 274.5 170.4 55.9 45.4 19.4 596.9 274.5 170.4 596.5 170.5		-33.4	200.5	16.4	515.2	_	273.0	58.2	1.000115
-55.4 10.4** 479.9 594.0 275.1 66.6 56.8 4.4 479.8 598.5 274.5 70.4 70.4 479.8 598.5 274.5 72.2 74.4 479.8 598.5 274.5 72.2 74.4 479.8 598.5 274.5 77.1 435.7 591.2 273.7 77.1 435.7 591.2 273.7 77.1 435.7 591.2 273.5 274.1 84.4 4124.4 598.7 273.5 274.1 84.4 4124.4 598.7 274.1 84.4 4124.4 598.7 274.1 84.4 86.3 395.3 588.2 274.1 84.4 86.3 395.3 588.2 274.1 84.8 86.3 395.3 574.0 274.7 86.3 395.3 574.0 274.7 86.3 395.3 574.0 274.7 86.3 395.3 574.0 274.9 80.3 335.7 574.4 270.1 80.3 353.5 574.1 270.1 80.3 353.5 574.1 270.1 80.3 353.5 574.1 270.1 80.3 353.5 574.1 200.1 80.3 77.4 270.1 200.1 80.3 200.7 570.1 200.1 77.4 200.1 77.4 200.1 77.4 200.1 77.4 200.1 77.1 77.4 200.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1		1940	-51.6	14.0**	505.7	_	2.4.5	0.29	1.000113
-59.1 8.1** 479.8 596.9 276.9 70.4 479.8 596.9 566.8 3.6** 455.4 594.2 274.5 77.1 1.4** 455.4 594.2 274.5 77.1 1.4** 455.4 594.2 274.9 77.1 1.4** 455.4 594.2 274.9 77.1 1.4** 455.4 594.2 274.9 77.1 1.4** 455.4 594.2 274.9 77.1 1.4** 455.4 594.2 274.9 87.9 79.9 88.3 79.2 274.9 88.3 79.3 79.3 79.3 79.3 79.3 79.3 79.3 79		30.5	0.00m	*******	V = 0V =		275.1		1110001
-62.4 5.9** 471.5 595.9 274.9 70.4 455.4 595.5 274.9 77.1 1.4** 455.4 595.5 274.9 77.1 1.4** 455.4 595.5 274.9 77.1 432.0 591.2 273.7 77.1 429.7 591.2 273.7 77.1 429.7 591.2 273.7 77.1 429.7 591.2 273.7 77.1 429.7 591.2 273.7 77.1 429.7 591.2 274.1 86.5 86.3 405.3 286.7 274.1 274.5 86.3 387.9 581.0 274.7 86.8 86.8 387.9 581.0 274.7 86.8 86.8 386.7 576.8 272.9 887.3 376.7 576.8 272.9 887.3 376.7 576.8 272.9 887.3 376.7 576.8 272.9 887.3 376.7 576.8 272.9 887.3 376.7 576.8 270.1 885.7 77.4 270.1		200	-50.1	**1	479.8		275.4	68.6	1.000107
		-38.4	-62.4	5.9*	471.5		274.9	70.4	1.000105
-74.1 1.4** 455.4 594.2 274.2 777.1 144** 447.5 592.7 273.7 779.9 439.7 591.2 273.7 779.9 439.7 591.2 273.7 779.9 417.0 586.7 274.4 86.6 86.3 380.7 274.5 86.3 380.7 578.2 274.5 86.3 380.7 578.2 274.5 86.3 380.7 578.2 274.5 86.3 380.7 578.2 274.5 86.3 380.7 578.2 274.5 86.3 380.7 578.6 274.5 86.3 380.7 578.6 277.7 86.5 80.3 353.3 574.1 277.4 270.1 85.0 350.7 574.5 208.7 77.4 270.1 280.7 77.4 270.1 280.7 77.4 270.1 280.7 77.4 270.1 280.7 77.4 270.5 208.7 77.4 270.7 209.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7 200.1 77.4 270.7		-39.5	-66.8	3.6**	463.4		274.5	72.2	1.000103
4.39.7 592.7 273.7 79.9 439.7 591.2 273.7 79.9 439.7 591.2 273.7 79.9 439.7 591.2 273.7 79.9 439.7 592.9 592.7 274.4 86.6 592.3 592.7 274.4 86.6 592.3		-40.5	•	*	455.4		274.2	74.4	1.000101
432.0 589.7 273.1 79.9 432.0 589.7 273.2 274.1 86.6 410.2 656.7 274.1 86.6 65.3 402.6 583.7 274.1 86.6 65.3 402.6 583.7 274.2 86.3 395.3 582.3 274.2 86.8 86.8 395.3 582.3 274.2 86.8 86.8 395.3 582.3 274.2 874.7 84.8 82.8 356.7 579.6 274.3 873.7 572.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 575.9 576.0 83.0 375.9 574.0 274.0 209.3 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.4 2209.1 77.1 2209.1 77.4 2209.1 77.1 2209.1 77.1 77.4 2209.1 77.1 77.1 77.4 2209.1 77.1 77.4 2209.1 77.1 77.4 2209.1 77.1 77.4 2209.1 77.1 77.4 2209.1 77.1 77.4 2209.1 77.1 77.1 77.4 2209.1 77.1 77.1 77.4 2209.1 77.1 77.1 77.1 77.4 2209.1 77.1 77.1 77.1 77.4 2209.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 7		-41.7			5.7.44 		2/3.9	1.77	1.000100
424.4 588.2 274.1 84.4 402.6 583.7 274.1 86.5 402.6 583.7 274.5 86.3 395.3 582.2 274.1 86.8 395.3 582.3 274.4 86.8 86.3 395.3 582.3 274.4 86.8 86.3 396.7 579.6 274.4 86.8 86.9 373.7 578.2 274.4 86.9 81.3 356.7 578.2 274.3 81.3 356.7 578.4 272.9 83.3 374.4 274.4 85.0 356.7 574.4 274.4 85.0 356.7 574.4 274.4 85.0 356.5 574.4 274.4 85.0 356.7 574.4 203.4 77.4 274.0 203.1 77.4 274.0 271.7 274.0 274.1 203.7 77.4 274.0 274.1 77.6 2		142.8			439.7		273.7	79.9	
#17.0 508.2 274.4 86.6 40.2 40.2 40.2 40.2 585.2 274.4 86.5 85.3 582.3 274.4 86.3 86.3 582.3 574.7 84.8 85.8 373.7 578.2 274.3 81.3 356.7 578.4 273.7 873.3 574.9 575.4 274.3 81.3 356.5 574.1 270.1 85.0 373.3 574.4 270.1 85.0 373.5 574.5 208.7 77.4 270.1 85.0 373.5 574.1 208.7 77.4 270.1 83.0 373.5 574.1 208.7 77.4 270.1 83.0 373.5 574.1 208.7 77.4 270.1 208.7 77.4 270.0 280.7 571.1 72.6 280.7 571.5 255.0 77.4 77.6 280.7 571.5 255.0 77.4 77.4 270.0 271.1 77.6 271.5		0.0			432.0		2/3.0	82.3	1.000096
402.6 583.7 274.5 86.3 395.3 582.3 274.5 86.3 395.3 582.3 274.7 84.8 85.8 356.7 579.6 274.9 80.9 373.7 579.6 274.9 80.9 359.9 575.9 274.9 80.9 359.3 575.9 575.9 274.9 80.9 359.3 574.1 270.0 83.0 356.5 574.0 270.0 83.0 356.5 574.0 209.8 77.4 2209.3 574.0 209.3 77.4 2209.3 574.0 209.1 77.4 2200.1 77.6 280.7 571.9 220.1 72.6 274.0 571.5 220.1 77.6 274.0 571.9 220.1 72.6 274.0 571.5 220.1 77.6 274.0 571.5 220.1 77.6 274.0 571.5 220.1 77.6 274.0 571.1 72.6 274.0 571.5 220.1 77.6 274.0 571.5 220.0 1 77.6 274.0 571.5 274.		V . C . C . C . C . C . C . C . C . C .			0.714		7.4.7	86.4	1.000093
402.6 583.7 274.0 85.8 395.3 582.3 274.7 84.8 82.8 380.7 579.6 274.9 80.9 373.7 579.6 274.9 80.9 353.3 574.9 575.9		-47.5			8.60#		274.5	86.3	1.000091
395.3 582.3 274.7 84.8 380.9 380.9 581.0 274.9 80.9 373.7 579.6 274.9 80.9 80.9 356.7 578.2 274.9 80.9 356.7 578.2 274.9 80.9 359.3 578.1 270.0 87.3 85.3 574.9 574.1 270.0 83.0 356.5 574.0 270.0 83.0 356.5 574.0 270.0 83.0 313.5 574.0 209.5 77.4 209.2 274.0 274.0 200.1 72.6 280.7 571.9 200.1 72.6 2274.0 571.5 200.1 72.6 200.1 72.0 277		-48.7			402.6		274.0	85.8	•
387.9 581.0 274.8 82.8 373.7 573.6 274.9 80.9 373.7 578.2 274.3 80.9 356.7 578.2 274.3 80.9 356.7 578.4 273.7 82.3 356.5 574.1 270.6 83.0 356.5 574.4 270.1 85.0 356.5 574.4 270.1 83.0 313.5 574.4 209.4 81.1 313.5 574.1 209.4 77.4 290.3 574.1 208.7 77.4 280.2 574.0 207.1 75.6 280.7 571.5 208.1 75.6 274.0 207.1 75.6 274.0 207.1 75.6 274.0 207.1 75.6 274.0 207.1 77.4 205.0 77.1 77.4 205.0 77.1 77.4 200.1 77.4 200.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 200.1 77.1 77.4 77.4 77.4 77.4 77.4 77.4 77		1.64-			395.3		274.7	84.8	1.000086
373.7 578.6 274.9 80.9 373.7 578.2 274.3 80.9 359.9 575.4 273.7 82.3 359.9 575.4 272.9 83.3 344.9 574.1 270.1 85.0 326.5 574.4 270.1 85.0 326.5 574.4 20.0 83.0 313.5 574.6 20.9 37.4 320.5 574.6 20.9 37.4 320.5 574.6 20.9 37.4 290.7 574.0 20.7 77.4 280.2 572.8 20.1 75.6 274.0 571.9 20.1 75.6		-50.7			387.9		274.8	85.8	1.000086
356.7 578.2 274.3 81.3 356.7 578.8 273.7 82.3 359.9 575.4 272.9 83.3 359.9 575.4 271.7 84.5 356.5 574.3 270.6 85.7 326.5 574.3 270.6 85.7 376.4 574.4 270.6 83.0 373.5 574.1 208.7 77.4 270.6 280.2 574.0 205.0 77.4 280.2 572.8 206.1 75.6 271.5 274.0 271.5 260.1 77.6 274.0 277.6 59.5 274.0 571.5 250.0 77.1 77.6 274.0 277.6 59.5 274.0 571.5 250.0 77.1 77.6 274.0 571.5 250.0 77.1 77.6 274.0 571.5 250.0 77.1 77.6 274.0 571.5 250.0 77.1 77.6 274.0 571.5 250.0 77.1 77.6 274.0 571.5 250.0 771.1		-51.8			380.7		5.47.7	80.9	1.000085
359.9 575.4 272.9 83.3 359.9 575.4 272.9 83.3 344.9 574.1 270.1 85.7 326.5 574.3 270.1 85.7 326.5 574.4 270.1 85.7 313.5 574.4 270.0 83.0 313.5 574.1 209.3 77.4 299.3 574.1 208.7 77.4 290.2 574.0 207.1 75.6 280.2 572.8 206.1 75.6 274.0 571.5 205.0 71.1		525			373.7		2/4.3	81.3	1.000083
353.3 574.0 271.7 84.5 554.1 270.0 85.7 320.5 574.1 270.0 85.7 320.5 574.1 270.0 85.7 320.5 574.1 270.0 83.0 313.5 574.1 209.5 77.4 270.0 209.3 574.1 209.3 77.4 209.3 574.0 205.0 77.4 220.0 207.1 72.6 274.0 571.5 209.1 72.6 274.0 571.5 209.1 72.6 274.0 571.5 209.1 72.6 274.0 571.5 209.1 72.6 274.0 571.5 209.1 72.6 274.0 571.5 209.1 77.1		150.4			350.0		27.00	64.5	790000-1
344.9 574.1 270.6 85.7 1.356.5 574.4 270.6 85.7 1.328.4 574.4 270.6 85.7 1.328.4 574.4 270.6 83.0 1.313.5 574.4 209.3 79.2 1.328.7 77.4 1.229.3 573.5 208.7 77.4 1.229.3 573.7 208.7 77.4 1.229.9 573.7 57.4 1.228.7 77.4 1.2280.7 574.0 205.6 1.2280.7 571.4 205.6 1.2280.7 571.4 205.6 1.2280.7 571.4 205.6 1.2280.7 571.4 205.6 1.2280.7 571.5 1.2280.7 571.5 206.4 69.5 206.7 571.5 206.4 69.5 206.7 571.5 206.4 69.5 206.7 571.5 206.7 571.5 206.4 69.5 206.7 571.5 206.7 571.5 206.7 571.5 206.7 571.5 206.7 571.5 206.7 571.5 206.7 571.5 206.7 571		15.00			35.4		271.7	94. A	1.000079
336.5 574.3 270.1 85.0 1.328.4 574.4 270.0 83.0 1.328.4 574.4 270.0 83.0 1.328.7 574.1 208.7 77.4 1.229.3 573.7 208.7 77.4 1.229.3 573.7 208.7 77.4 1.228.2 573.4 205.0 74.0 1.280.7 571.4 205.0 77.1 77.0 1.280.7 571.4 205.0 77.1 1.280.7 571.4 205.0 77.1 1.280.7 571.5 254.4 69.5 1.280.7 571.5 254.5 69.5 1.280.7 571.5 254.5 69.5 1.280.7 571.5 254.5 69.5 69.5 1.280.7 571.5 254.5 69.5 69.5 1.280.7 571.5 254.5 69.5 69.5 69.5 69.5 69.5 69.5 69.5 69		-56.0			344.0		270.6	85.7	1.000027
320.5 574.4 270.0 83.0 1.320.5 574.4 270.0 83.0 1.320.5 574.6 269.4 81.1 1.320.7 574.1 208.7 77.4 1.299.3 573.7 208.7 77.4 1.299.3 573.7 208.1 77.4 1.280.2 574.0 207.1 72.6 1.280.7 571.4 205.0 77.1 1.200.7 571.4 205.0 77.1 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571.5 551.6 505.5 1.200.7 571.5 571		15 E			336.5		270-1	95.0	1.00001
320.5 574.6 269.8 81.1 1. 313.5 574.1 269.3 79.2 1. 306.7 573.5 208.7 77.4 1. 299.3 573.7 208.1 77.4 1. 291.9 574.0 207.1 74.0 1. 280.2 572.8 206.1 72.6 1. 280.7 571.4 205.0 71.1 1.		-55.7			328.4		270.0	83.0	1.000073
313.5 574.1 209.3 79.2 1. 306.7 573.5 208.7 77.4 1. 299.3 573.7 208.1 75.6 1. 280.2 574.0 207.1 74.0 1. 280.2 572.8 206.1 72.6 1. 280.7 571.4 205.0 77.1 1.		-55.6			320.5		8.64 ²	81.1	1.000071
306.7 573.5 208.7 77.4 1.00006 299.3 573.7 208.1 75.6 1.00006 291.9 574.0 207.1 74.0 1.00006 280.2 572.8 206.1 72.6 1.00006 280.7 571.4 205.0 71.1 1.00006		-56.0			313.5		50602	79.2	•
299.3 573.7 258.1 75.6 1.00006 291.9 574.0 257.1 74.0 1.00006 285.2 572.8 255.1 72.6 1.00006 286.7 571.4 255.0 71.1 1.00006 274.0 571.5 254.4 69.5 1.00006		-56.4			306.7	5	208.7	77.4	90000
291.9 574.0 257.1 74.0 1.00006 285.2 572.8 255.1 72.6 1.00006 280.7 571.4 255.0 71.1 1.00006 274.0 571.5 264.4 69.5 1.00006		-56.3			299.3	3	20Q.1	75.6	90000
280.2 572.8 206.1 72.6 1. 280.7 571.4 205.0 71.1 1. 274.0 571.5 254.4 69.5 1.		-56.1			6.105		207.1	74.0	90000
280.7 571.4 255.0 71.1 1. 274.0 571.5 254.4 69.5 1.		-57.0			280.2		200.1	72.6	1.000064
274.0 571.5 204.4 69.5 I.		-58.0			280.7	571	205.6	71.1	1.000063
		-57.9			274.0	571	5.50%	ŏ	1.000061

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USE!, IN THE INTERPOLATION.

VEODETIC COUNDINATES 33.10712 LAI DEG 106.49511 LON DEG	INJEX ED OF TS REFRACTION	1.000058	1.00005	-	68.9 1.000055		74.6 1.000051	:	-			_	•	0.60 1.000043	-	1.000041		_	-		:	32.8 1.000035	26.3 1.000033	7	~	~		~		┥.	-	1.000027	:	1.00002	1.00002	7.00002	11.1 1.000023
o E O	A1A SPEED KNOTS		ود ا	ō	Φř	- 1	- ~	7	7	7	~	•	• •	Φ μ	שנה	n er	đ	#	3	וייי	יניי	r) (Ñ	Ä	~						•	٠.	₹ .	~ (Ν.	` :	4-4
	WIND DATA DIRECTION S DEGREES(IN) K	,63.2	262.0	262.0	261.4	1.102	0.007	260.0	260.4	761.0	261.3	262.3	263.5	20 to 10 to	203.0	266.0	266.7	269.4	270.1	270.6	2/1-1	2/1.2	270.9	266.3	250.7	252.6	200.9	1001	0.00	0.00	2	228.8	242	c•0c2	255.6	1.702	7.642
Z. Z. CONT'D	SPEED OF SOUND AND AND IS				567.0	5000	565.U	565.0	564.7	565.3	565.5	565.2			304.00	565.7						562.9	564.0	-		565.6	566.1	202.8	8.495	9.coc	202.8	6-195	5000	6.644	560+3	7.095	561.4
UPPER ALK U.,T 1050030022 JALLEN TABLE 25 CON	DENSITY S GM/CUBIL METER	262.4	257.0	251.6	246.0	0.147	230.5	225.1	219.9	214.1	208.₽	203.9	199.1	194.5	109.9	181.2	177.2	173.2	169.4	165.2	160.9	156.0	146.5	144.6	140.8	137.1	133.5	4.001	127.7		122.4	119.8	11/03	2 · · · ·	111.8	100.4	103.5
3	REL . HIJM. PERCENT																																				
4051.00 FEET MSL 090A HRS MST 2	TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	*F9•1	1,908	9-09-	-61.3	-61.0	162.4	-62.8	-63.0	-62.6	-62.5	-62.7	-62.9	16301	1.00 m	-63.0 -63.0	-64.5	7-49-7	-65.2	-65.2	-64.8	# · # · # · # · # · # · # · # · # · # ·	-63.6	-63.2	-62.8	-62.4	-6.2.0	2-29	16.4.0		5.79	-65.H	-F5.9	- 65.6	-66.3	1600	-65.5
~	PRESSURE MILLIBARS	_	157.4	Š	150.0	3	139.3		10	Ñ	126.3	(V	120.2	-		111.0	ě	0	0	986	90.2	92.9	4.68	87.2	85.1		61.0	9.67	7/•1	7.67	75.5	71.6	69.69	1.89		* *	61.6
STATION ALTITUDE 15 APR. 82 ASCENSION NO.	GEUMETRIC ALTITUDE MSL FEET	5		000	45500.0	•	46560.0		8000	48500.0	0.00064	49500.0	20000	50500.0	0.00010	52000.0	52500.0	53000.0	53500.0	54000.0	54500.0	55000.0	56000.0	56500.0	57000.0	57500.0	58000.0	28200.0	0.00040	0.0000	•	0.00000	.	÷	000	٠.	63500.0

STATION ALTITUD	iait.	4051.00 FEFT MSL 0900 HRS MST	ر	UPPER AIM DAT 1050330022 JALLEN	5,1A		GEODET 10	GEODETIC COORDINATES 33.10712 LAT DEG
0	· .)		25	CONT'D		106.	106.49511 LON DEG
GEOMETRIC ALTITUME	PRESSURE	TEMPERATURE AIR DEWPOINT	REL . HUM. PERCENT	DENSITY GM/CUBIC	SPEEU OF	WIND DATA	1A SPEED	INUEX OF
MSL FEET	MILLIBARS	吕		METER		LEGREES (IN)	KNOTS	REFRACTION
64000.0	60.1	-63.7		100.0	563.A	7.642	-	1.000022
64500.0	58.7	4.09-		0.96	568.2	249.3	11.3	1.000021
65000.0	57.3	-58.9		93.1	570.2	5.00°	11.1	1.000021
65500-0	55.9	-58.6		90.7		252.7	10.5	• 00005
0.00099	54.6	158.2		88.4		255.3	8.6	•
6200-0	0.00 0.00 0.00	15/49 R7/49		80.0	5/1.6	254.5	* 4	610000-1
67500-9	השני	2.1.2		81.9		42.		•
68000.0	3	-57.0		79.9		86.	3.0	1.000018
68500.0	☆•☆	-57-1		78.0		86.7	5.6	1.000017
0-00069	47.2	-57.1		76.2		86.7	8.2	.00001
69500.0		-57.2		74.4		83.8	8.7	.0000
200007	#Ç.	-57.2		72.7		3.67	8.6	1.000016
70500-0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-57.3		71.0	572.4	75.9	9.0	1.000016
71500.0	41.	-57.4		67.7		67.7	5.2	1.000015
72000-0	10	-57.5		66.1		P.65	3.5	1.000015
72500-0	9	-57.5		9.49		79.5	2.8	.00001
73000.0	נייו	-57.6		63.0		100.0	5.6	1.000014
73500.0	יכיו	-57.6		61.6		129.5	8	1.000014
74500.0	37.5	-577		58.7	571.9	157.1) () ()	1.000013
75000•0	, .	-57.5		57.2		160.4	3.1	1.000013
75500.0	;	-56.9		55.8		158.8	2.5	1.000012
76000.0	÷	-56.6		24.4		156.2	1.9	1.000012
76500.0	50	-56.2		53.0		190.6	۳. ۵.	1.000012
77500.0	36.6	150.4		7.10	5,4,5	250.0	* «	1.000012
78000.0	Š	1000		49.2		222.7	6.7	10000
78500.0	. ED	-55.0		47.9		254.5	8.5	1.000011
79000-n	N	-54-4		46.7		2522	10.3	
79500.0	\$	15.5°		45.5		225.5	9.6	
80000	26.0	-53. -53.		₽•## ###	577.8	\$20	8.6	•
Ú-00C09	٠,	152.0		2.03		7.000	٠ • •	
81500.0	26.1	25.0		42.1	5.09.4	217.5	ບຸ ບໍ່ນີ້	1.000009
	3						,	•
82500.0	500	.50.3		38.9		,	•	1.000009
B3000.0	;	4.00-		38.0				
83500.0	23.8	-50.5		37.2				1.000008

STATION AL 15 APR. 82 ASCENSION	.TITUDE 405 0 NO. 22	STATION ALTITUDE 4051.n0 FEET MSL 15 Apr. 82 0908 HRS MST ASCENSION NO. 22		UPPER AIR UATA 1050030022 JALLEN TABLE 25 CONT'D	UnlA 122 CONT'D		GEODET1 33. 106.	FEODETIC COONDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALTITUDE MSL FEET	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIDARS	SSURE TEMPERATURE REL.HUM. DENSITY SPLEU OF AIR DEWPOINT PERCENT GM/CUBIC SUUND IDARS DEGREES CENTIGRADE METER KNOTS L	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA UIRECTION SPEED UEGREES(IN) KNOTS	A SPEED KNOTS	INJEX OF REFRACTION
84000.0	••	23.2 -50.6		36.	36.3 581.2			1.000008

	GEODETIC COORDINATES	33.16712 LAT DEG	106.49511 LON DEG	
MANDATORY LEVELS	1050030022	JALLEN	TABLE 26	
	STATION ALTITUDE 4051.00 FEET MSL		ASCENSION NO. 22	

# TLLIGARS FEE! DEGREE # # # # # # # # # # # # # # # # # #		PERCENT		
4752. 6434. 8198. 10053. 12015. 14101. 16329. 18726. 27256. 30747. 34730. 34730. 45375. 45376. 60740. 63810.	DEGREES CENTIGRADE		DEGREES (TN)	KNOTS
6434. 8198. 12015. 12015. 16329. 18726. 27256. 30747. 34730. 34720. 45275. 45360. 58053. 60740. 63810.	17.1 -8.9	16.	242.4	2,5
8198. 10053. 12015. 14101. 16329. 18726. 27256. 30747. 34730. 45204. 45375. 60740. 63810.	13.1 -11.6	17.	277.9	6.8
10053. 12015. 14101. 16729. 21318. 27256. 30747. 34730. 34730. 45375. 45375. 60740. 63810.	8.7 -14.0	18.	265.5	7.7
12015. 14101. 16329. 18726. 21318. 2718. 30747. 34730. 34730. 49204. 45375. 60740. 63810.		17.	267.4	17.2
14101. 16329. 18726. 21318. 24143. 27256. 39422. 4730. 4730. 49068. 60740. 63810.	.2 -21.5	16.	273.6	22.2
16329. 18726. 21318. 271143. 272143. 39422. 45375. 45375. 60740. 63810.	•	15.	265-1	24.3
18726. 21318. 24143. 207256. 39422. 45275. 45375. 45375. 60740. 63810.	-9.4 -31.3	15.	262.0	29.6
21318. 24143. 34725. 34730. 39422. 452704. 45375. 53560. 53560. 53560. 53560.		15.	257•1	29.5
24143. 30747. 34730. 34730. 39422. 452704. 45375. 53560. 53560. 60740. 67569.		16.	260.6	33.1
27256. 30747. 39422. 492204. 452704. 693560. 58053. 60740. 67569.	•	16.	262•5	38.0
30747. 34730. 32422. 42204. 45375. 63560. 60740. 63810. 72199.	33.750.8	10.**	273.0	60.4
34730. 39422. 45204. 45375. 53560. 58053. 60740. 67569.	41.2		274.0	76.0
39422. 42204. 45375. 49068. 53560. 58053. 60740. 67810.	50.3		274.7	85.7
42204. 45375. 45375. 58053. 60740. 67810. 72199.	55.6		8.697	81.1
45375. 49068. 53560. 58053. 60740. 63810. 771899.	57.7		265.4	71.7
49068. 53560. 58053. 60740. 63810. 771899.	61.3		261.4	6d.8
53560. 58053. 60740. 63810. 77569.	62.6		261.7	70.2
58053. 60740. 63810. 67569. 72199.	-65.4		270.3	†0 *
60740. 63810. 67569. 72199.	-61.8		184.5	6.5
63810. 67569. 72199.	-65.8		244.6	16.2
67569. 72199. 78182.	63.5		248.5	11.2
72199.	-57.0		86.7	2.0
78182	57.5		77.1	2.9
	-55.0		254.5	8.5
25.0 82046	50.3			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE "AS USED IN THE INTERPOLATION.